Hyland Facility Associates

2019 – 4th QUARTER
(ANNUAL) OPERATIONS REPORT

HYLAND FACILITY ASSOCIATES LANDFILL

6653 Herdman Road
Angelica New York 14709

Prepared for:

Hyland Facility Associates
6653 Herdman Road
Angelica, New York 14709

Prepared by:

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Buffalo, New York 14214

Permit Number: 9-0232-00003/00002
Facility Number SW # 02S17

FEBRUARY 2020

MSW, INDUSTRIAL OR ASH LANDFILL ANNUAL/QUARTERLY REPORT

Submit the Annual Report no later than March 1, 2020.

A. This annual/quarterly report is for the year of operation from January 01, 2019 to December 31, 2019

B. Quarterly Report for: ☐ Quarter 1 ☐ Quarter 2 ☐ Quarter 3 ■ Quarter 4

SECTION 1 – FACILITY INFORMATION

FACILITY INFORMATION			
FACILITY NAME: Hyland Facility Associates			
FACILITY LOCATION ADDRESS: 6653 Herdman Road	**FACILITY CITY:** Angelica	**STATE:** NY	**ZIP CODE:** 14709
FACILITY TOWN: Angelica	**FACILITY COUNTY:** Allegany	**FACILITY PHONE NUMBER:** 585-466-7271	
FACILITY NYS PLANNING UNIT: **(A list of NYS Planning Units can be found at the end of this report).** Allegany County		**NYSDEC REGION #:** 9	

360 PERMIT #:	**DATE ISSUED:**	**DATE EXPIRES:**	**NYS DEC ACTIVITY CODE OR REGISTRATION NUMBER:**
9-0232-00003/00002	12/1/2015	5/1/2025	02S17

FACILITY CONTACT:	☐ **public** ■ **private**	**CONTACT PHONE NUMBER:**	**CONTACT FAX NUMBER:**
Larry Shilling		585-466-7271	585-466-3206
CONTACT EMAIL ADDRESS: Larry.Shilling@casella.com			

OWNER INFORMATION			
OWNER NAME: Hyland Facility Associates	**OWNER PHONE NUMBER:** 585-466-7271	**OWNER FAX NUMBER:** 585-466-3206	
OWNER ADDRESS: 6653 Herdman Road	**OWNER CITY:** Angelica	**STATE:** NY	**ZIP CODE:** 14709
OWNER CONTACT: Larry Shilling	**OWNER CONTACT EMAIL ADDRESS:** Larry.Shilling@casella.com		

OPERATOR INFORMATION		
OPERATOR NAME: ■ *same as owner*	☐ **public** ■ **private**	

PREFERENCES		
Preferred address to receive correspondence:	■ *Facility location address*	☐ *Owner address*
☐ *Other (provide):*		
Preferred email address:	■ *Facility Contact*	☐ *Owner Contact*
☐ *Other (provide):*		
Preferred individual to receive correspondence:	■ *Facility Contact*	☐ *Owner Contact*
☐ *Other (provide):*		

Did you operate in 2019? ■ Yes; Complete this form.

☐ No; Complete and submit Sections 1 and 23. If you no longer plan to operate and wish to relinquish your permit/registration associated with this solid waste management activity, also complete the "Inactive Solid Waste Management Facility or Activity Notification Form" located at: http://www.dec.ny.gov/chemical/52706.html .

SECTION 2 - SITE LIFE

1. Landfill Capacity Utilized Last Year (reporting year).

   a. What is the estimated landfill capacity that was utilized during the reporting year?

   575,768 Cubic Yards of Airspace

   b. What is the estimated in-situ waste density for the reporting year?

   Please do not report units as pounds per cubic yard.

   0.88 Tons/Cubic Yard

2. Remaining Constructed Capacity

   a. What is the remaining capacity of the landfill that is already constructed?

   1,125,577 Cubic Yards of Airspace

   b. What is the estimated remaining life of the constructed capacity?

   1 Years 9 Months

   at 465,000 Tons/Year.*

   * Please note that this tonnage rate must include all materials placed in the landfill, i.e., waste, soil, cover, alternative daily covers, etc.

   c. The tonnage rate reported under 2.b. is based on (select one):

   _____ The amount of materials placed in the landfill in the reporting year

   _____ Estimated future disposal

   X Permit limit

   Other (explain): _____

3. Permitted Capacity Still to be Constructed

   a. What is the remaining but not yet constructed landfill capacity that is authorized by a Part 360 permit?

   5,191,500 Cubic Yards of Airspace

   b. What is the projected life of capacity reported in 3.a?

   8 Years 3 Months

   at 465,000 Tons/Year.*

   * Please note that this tonnage rate must include all materials disposed in the landfill, i.e., waste, and soil and alternative daily covers.

   c. The tonnage rate reported under 3.b. is based on (select one):

   _____ The amount of materials placed in the landfill in the reporting year

   _____ Estimated future disposal

   X Permit limit

   Other (explain): _____

4. Capacity Proposed in a Part 360 Permit Application

What is the capacity of any expansion proposed in a Part 360 permit application that has been submitted to the Department but not authorized by a permit as of the end of the reporting period?

0 Cubic Yards of Airspace

5. Estimated Potential Future Capacity Not Permitted or in an Application (optional)

What is the estimated capacity of any potential future expansion at the facility that is not yet authorized by a permit or proposed in a Part 360 permit application that has been submitted to the Department?

_____ Cubic Yards of Airspace

SECTION 3 - PRIMARY LEACHATE

Name of off-site leachate treatment facility(s) utilized: Wellsville WWTP, Jamestown WWTP, Belmont WWTP, and Town of Caneadea WWTP

Does the landfill have a constructed liner and a leachate collection system? ■ Yes □ No

Enter the quantity of primary leachate that was collected, removed for on-site and off-site treatment, and recirculated each month, and the corresponding **Acreage, by Cell**:
(Note: For double-lined landfills this should not include the volume of leachate collected from secondary leachate collection and removal systems.)

For **each cell**, please report the **acreage** and the **primary leachate** amount.

	PRIMARY LEACHATE COLLECTED (GALLONS)						PRIMARY LEACHATE TREATED OFF SITE (GALLONS)					
	Cells 1, 2, 3, 4, 5A, and 5B (61.9 Acres)						Cells 1, 2, 3, 4, 5A, and 5B (61.9 Acres) includes secondary leachate					
January	1,146,234						1,139,793					
February	972,447						992,935					
March	886,864						951,498					
April	910,128						910,486					
May	1,026,152						985,349					
June	1,233,845						1,096,452					
July	1,034,429						1,159,612					
August	982,250						1,028,510					
September	982,416						916,680					
October	1,176,466						1,100,772					
November	1,016,325						1,095,490					
December	1,046,612						1,021,779					
ANNUAL	12,414,168						12,399,356					

	PRIMARY LEACHATE RECIRCULATED (GALLONS)						PRIMARY LEACHATE TREATED ON SITE (GALLONS)					
	There was no recirculation						There was no leachate treated on site					
January												
February												
March												
April												
May												
June												
July												
August												
September												
October												
November												
December												
ANNUAL												

Submit (attached to this form) a copy of the maintenance logs which document compliance with the Operation and Maintenance Manual's schedule for the routine annual flushing and inspection of the primary leachate collection and removal system. List required submissions that have been attached to this form or the reason for not attaching a required piece of information:

Jamko Technical Solutions, Inc. was on-site in April, May, and November 2019 to clean the leachate lines. Attachment 1 includes this information. The leachate impoundments were emptied and inspected by the NYSDEC. The substrate for both impoundment bays were cleaned in the spring of 2019.

Submit (attached to this form) a tabulated compilation of the semi-annual primary leachate quality data collected throughout the year including a summary comparing this year's data with the previous year's data and a summary discussion of results. This list should identify sample location(s) and method of analysis. List required submissions that have been attached to this form or the reason for not attaching a required piece of information:

On-Site Geological Services, D.P.C. (On-Site) provided a tabulated compilation of the semi-annual primary leachate quality data. This information is included in Attachment 2.

SECTION 4 - SECONDARY LEACHATE

Does landfill have a double liner system with a secondary leachate collection and removal system? ☒ Yes ☐ No

Submit (attached to this form) a tabulated compilation of the semi-annual secondary leachate quality data collected throughout the year including a summary comparing this year's data with all previous years' data and a summary discussion of results. This list should identify sample location(s) and methods of analysis. List required submissions that have been attached to this form or the reason for not attaching a required piece of information:

On-Site provided a tabulated compilation of the semi-annual secondary leachate quality data. This information is included in Attachment 2.

Please report total cost for the year, not cost/gal.

Leachate Cost: (including transportation if appropriate) during the calendar year for leachate treatment: $ Refer to Attachments #13 and #14

Total quantity treated: 12,399,356 gal

Enter the quantity of secondary leachate that was collected, removed for on-site and off-site treatment, and recirculated each month, and the corresponding **Acreage, by Cell**:

For **each cell**, please report the **acreage** and the **secondary leachate** amount.

Reprinted (12/19)

	SECONDARY LEACHATE COLLECTED (GALLONS)						SECONDARY LEACHATE TREATED OFF SITE (GALLONS)					
	Cells 1, 2, 3, 4, 5A, and 5B (61.9 Acres)						Cells 1, 2, 3, 4, 5A, and 5B (61.9 Acres)					
January	4,992						The volume of secondary leachate treated off site is included in the primary leachate volume table					
February	2,377											
March	3,044											
April	4,366											
May	4,094											
June	5,688											
July	24,804											
August	4,741											
September	2,066											
October	2,237											
November	2,602											
December	6,182											
ANNUAL	67,193											

	SECONDARY LEACHATE RECIRCULATED (GALLONS)						SECONDARY LEACHATE TREATED ON SITE (GALLONS)					
	There was no recirculation						There was no leachate treated on site					
January												
February												
March												
April												
May												
June												
July												
August												
September												
October												
November												
December												
ANNUAL												

SECTION 5 – BENEFICIAL USE DETERMINATION MATERIALS AND ALTERNATIVE OPERATING COVER MATERIALS

For each type of waste material that the Department has approved for use as alternative operating cover (AOC), intermediate cover, or other landfill material, provide the annual weight in tons, use (i.e., operating cover, intermediate cover, etc.), and source of material. (If material is from a solid waste facility also provide facility name, address, NYS Planning Unit, County/ Province, and State/Country.) **Refer to the list of NYS Planning Units that can be found at the end of this report.**

Type of Solid Waste	Weight (tons/year)	Use	NYS Planning Unit (See Attached List of NYS Planning Units)	County or Province	State or Country	Source (Facility and Address)
Aggregate/Concrete						
Contaminated Soil	1,185.28	AOC				
Foundry Sand						
Glass						
Industrial Waste (specify)						
Sandblast	152.17	AOC				
Solidification Bulking Agent (SBA)	3,734.03	SBA				
MSW Ash						
Wood Ash						
Paper Mill Sludge						
C&D	15,308.47	AOC				
Waste Tire-Derived Aggregate /						
Waste Tires						
Other (specify)						
Shredder Fluff	21,305.27	AOC				
Total AOC	37,951.19					
Total Beneficial Use Determination Materials	41,685.22					

Percent Alternative Operating Cover (AOC) Calculation

AOC Calculations: Total Tons AOC/Total Tons Waste Disposed x 100 = 8.2

Please note the calculation **is**: Tons AOC (from table above)/Tons Solid Waste (from table in Section 6) x 100 and **Not**: Tons AOC / (Tons Solid Waste + AOC) x 100

SECTION 6 - SOLID WASTE DISPOSED

Provide the tonnages of solid waste disposed. Exclude Beneficial Use Material amounts reported in Section 5 and Recyclable Material amounts reported in Section 8. Specify the methods used to measure the quantities disposed and the percentages measured by each method:

100 % Scale Weight _____% Estimated

_____% Truck Count _____% Other (Specify: _____)

Type of Solid Waste	January (tons)	February (tons)	March (tons)	April (tons)	May (tons)	June (tons)	July (tons)
Asbestos	543.22	101.96	253.49	110.28	92.49	1,326.42	2,511.72
Ash (Coal)							
Ash (MSW Energy Recovery)							
Construction & Demolition Debris (mixed)	6,243.79	4,732.65	7,842.60	6,434.80	7,074.88	6,722.32	4,773.09
Industrial Waste (Including Industrial Process Sludges)	508.68	435.85	442.62	698.01	699.05	773.77	803.25
Mixed Municipal Solid Waste (Residential, Institutional & Commercial)	24,703.60	21,581.86	22,565.82	30,099.93	31,112.79	28,577.42	29,187.56
Oil/Gas Drilling Waste							
Petroleum Contaminated Soil	0	0	0	47.66	0	0	2,197.34
Sewage Treatment Plant Sludge	6,953.59	5,935.65	6,251.82	7,209.76	7,532.61	6,276.12	7,632.30
Treated Regulated Medical Waste							
Emergency Authorization Waste (Storm Debris)							
Other (specify)							
Total Tons Disposed	38,952.88	32,787.97	37,356.35	44,600.44	46,511.82	43,676.05	47,105.26

SECTION 6 - SOLID WASTE DISPOSED (continued)

Type of Solid Waste	Tip Fee ($/Ton)	August (tons)	September (tons)	October (tons)	November (tons)	December (tons)	Total Year (tons)	Daily Avg. (tons)
Asbestos		894.50	1,025.15	303.66	1.54	0	7,164.43	22.96
Ash (Coal)								
Ash (MSW Energy Recovery)								
Construction & Demolition Debris (mixed)		8,502.41	4,209.40	1,905.96	1,907.46	2,076.38	62,425.74	200.08
Industrial Waste (Including Industrial Process Sludges)		548.69	400.03	553.16	454.37	553.56	6,871.04	22.02
Mixed Municipal Solid Waste (Residential, Institutional & Commercial)		28,791.91	26,687.27	24,716.95	22,910.80	16,057.87	306,993.78	983.95
Oil/Gas Drilling Waste								
Petroleum Contaminated Soil		682.39	406.09	0	0	0	3,333.48	10.68
Sewage Treatment Plant Sludge		8,008.90	7,666.96	4,029.80	5,394.16	5,310.54	78,202.21	250.65
Treated Regulated Medical Waste								
Emergency Authorization Waste (Storm Debris)								
Other (specify)								
Total Tons Disposed		47,428.80	40,394.90	31,509.53	30,668.33	23,998.35	464,990.68	1,490.35

SECTION 7 – SERVICE AREA OF SOLID WASTE RECEIVED

Please identify where the waste is coming from. The total tons received reported below should equal the total tons received in Section 6 (Solid Waste Disposed). DO NOT REPORT IN CUBIC YARDS!

- If the waste ***WAS*** received from another solid waste management facility, please write in the name *and* address of the facility along with the appropriate state, county and planning unit/municipality.
- If the waste ***WAS NOT*** received from another solid waste management facility, please write in "***Direct Haul***" along with the appropriate state, county and planning unit/municipality where the waste was generated.

Specify transport method and percentages of total waste transported by each:

100 % Road _____% Rail _____% Water _____% Other (specify:_____)

Explain which waste types and service areas below are included in these transport methods _____

SERVICE AREA OF SOLID WASTE RECEIVED					
TYPE OF SOLID WASTE	**SOLID WASTE MANAGEMENT FACILITY FROM WHICH IT WAS RECEIVED (Name & Address) OR "Direct Haul"**	**SERVICE AREA STATE OR COUNTRY**	**SERVICE AREA COUNTY OR PROVINCE**	**SERVICE AREA NYS PLANNING UNIT (See Attached List of NYS Planning Units)**	**TONS RECEIVED**
Asbestos					
Ash (Coal)					
Ash (MSW Energy Recovery)					
Construction & Demolition Debris (mixed)					

See Attachment 3 - Waste Origin and Attachment 9 - Tonnage Reports

SERVICE AREA OF SOLID WASTE RECEIVED					
TYPE OF SOLID WASTE	**SOLID WASTE MANAGEMENT FACILITY FROM WHICH IT WAS RECEIVED** (Name & Address) **OR "Direct Haul"**	**SERVICE AREA STATE OR COUNTRY**	**SERVICE AREA COUNTY OR PROVINCE**	**SERVICE AREA NYS PLANNING UNIT** (See Attached List of NYS Planning Units)	**TONS RECEIVED**
Industrial Waste (Including Industrial Process Sludges)					
Mixed Municipal Solid Waste (Residential, Institutional & Commercial)					
Oil/Gas Drilling Waste					
Petroleum Contaminated Soil					
Sewage Treatment Plant Sludge					
Treated Regulated Medical Waste (TRMW)*					
Emergency Authorization Waste (Storm Debris)					
Other (specify)					
				TOTAL RECEIVED (tons): _____	

* List generators that provide you Certificates of Treatment forms and quantities of TRMW from each _____

SECTION 8 –LANDFILL RECYCLABLE & RECOVERED MATERIALS

Is your facility also a permitted or registered Recyclables Handling & Recovery Facility?

☐ Yes; Complete Section 9 for material recovered from the mixed solid waste stream. Complete a Recyclables Handling & Recovery Facility (RHRF) form for material received as source separated. The RHRF form is located at: http://www.dec.ny.gov/chemical/52706.html .

■ No; Complete Section 9 for material recovered from the mixed solid waste stream and for material received as source separated.

A. Service Area of Recyclable Material Received

Please identify where the recyclable materials are coming from. DO NOT REPORT IN CUBIC YARDS!

- If the materials ***WERE*** received from another solid waste management facility, please write in the name and address of the facility along with the appropriate state, county and planning unit/municipality.
- If the materials ***WERE NOT*** received from another solid waste management facility, please write in "***Direct Haul***" along with the appropriate state, county and planning unit/municipality where the recyclables were generated.

Specify transport method, list type of material(s) and percentages of total waste transported by each:

_____% Road: Waste Type(s):_____ _____% Rail: Waste Type(s):_____

_____% Water: Waste Type(s):_____ _____% Other (specify: _____): Waste Type(s):_____

SERVICE AREA OF RECYCLABLE MATERIAL RECEIVED					
MATERIAL	SOLID WASTE MANAGEMENT FACILITY FROM WHICH IT WAS RECEIVED (Name & Address) OR "Direct Haul"	SERVICE AREA STATE OR COUNTRY	SERVICE AREA COUNTY OR PROVINCE	SERVICE AREA NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECEIVED
Commingled Containers (metal, glass, plastic)					
Commingled Paper (all grades)					
Single Stream (total)					
Brush, Branches, Trees, & Stumps					
Food Scraps					
Yard Waste (curbside)					
Other (specify)					
				TOTAL RECEIVED (tons):	_____

SECTION 8 – LANDFILL RECYCLABLE & RECOVERED MATERIALS

B. Material Recovered

Identify the name of the destination facility to which the material was sent from your facility, the corresponding State/Country, the County/Province, the NYS Planning Unit, and the amount of material transported. **Refer to the list of NYS Planning Units that can be found at the end of this report.** DO NOT REPORT IN CUBIC YARDS!

Specify transport method and percentages of total material transported by each:

_____% Road _____% Rail _____% Water _____% Other (specify: _____)

Explain which materials and destinations below are included in these transport methods _____

PAPER RECOVERED					
RECOVERED MATERIAL	**DESTINATION** (Name & Address)	**DESTINATION STATE OR COUNTRY**	**DESTINATION COUNTY OR PROVINCE**	**DESTINATION NYS PLANNING UNIT** (See Attached List of NYS Planning Units)	**TONS RECOVERED** (out of facility)
Commingled Paper (all grades)					
Corrugated Cardboard					
Junk Mail					
Magazines					
Newspaper					
Office Paper					
Paperboard / Boxboard					
Other Paper (specify)					
				TOTAL PAPER RECOVERED (tons):	_____

SECTION 8 – LANDFILL RECYCLABLE & RECOVERED MATERIALS (continued)

B. Material Recovered

GLASS RECOVERED					
RECOVERED MATERIAL	DESTINATION (Name & Address)	DESTINATION STATE OR COUNTRY	DESTINATION COUNTY OR PROVINCE	DESTINATION NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECOVERED (out of facility)
Container Glass					
Industrial Scrap Glass					
Other Glass (specify)					
				TOTAL GLASS RECOVERED (tons):	

METAL RECOVERED					
RECOVERED MATERIAL	DESTINATION (Name & Address)	DESTINATION STATE OR COUNTRY	DESTINATION COUNTY OR PROVINCE	DESTINATION NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECOVERED (out of facility)
Aluminum Foil / Trays					
Bulk Metal (from MSW)					
Bulk Metal (from CD debris)					
Enameled Appliances / White Goods					
Industrial Scrap Metal					
Tin & Aluminum Containers					
Other Metal (specify)					
				TOTAL METAL RECOVERED (tons):	

SECTION 8 – LANDFILL RECYCLABLE & RECOVERED MATERIALS (continued)

B. Material Recovered

PLASTIC RECOVERED					
RECOVERED MATERIAL	**DESTINATION** (Name & Address)	**DESTINATION STATE OR COUNTRY**	**DESTINATION COUNTY OR PROVINCE**	**DESTINATION NYS PLANNING UNIT** (See Attached List of NYS Planning Units)	**TONS RECOVERED** (out of facility)
Mixed Plastic (#1 - #7)					
PET (plastic #1)					
HDPE (plastic #2)					
Other Rigid Plastics (#3 - #7)					
Industrial Scrap Plastic					
Plastic Film & Bags					
Other Plastics (specify)					
				TOTAL PLASTIC RECOVERED (tons):	_____

SECTION 8 – LANDFILL RECYCLABLE & RECOVERED MATERIALS (continued)

B. Material Recovered

MIXED MATERIAL RECOVERED					
RECOVERED MATERIAL	**DESTINATION** (Name & Address)	**DESTINATION STATE OR COUNTRY**	**DESTINATION COUNTY OR PROVINCE**	**DESTINATION NYS PLANNING UNIT** (See Attached List of NYS Planning Units)	**TONS RECOVERED** (out of facility)
Commingled Containers (metal, glass, plastic)					
Commingled Paper & Containers					
Single Stream (total)					
Other (specify)					
				TOTAL MIXED MATERIAL RECOVERED (tons):	_____

SECTION 8 – LANDFILL RECYCLABLE & RECOVERED MATERIALS (continued)

B. Material Recovered

MISCELLANEOUS MATERIAL RECOVERED					
RECOVERED MATERIAL	DESTINATION (Name & Address)	DESTINATION STATE OR COUNTRY	DESTINATION COUNTY OR PROVINCE	DESTINATION NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECOVERED (out of facility)
Electronics					
Textiles					
Brush, Branches, Trees, & Stumps					
Food Scraps					
Yard Waste (curbside)					
Other (specify)					
				TOTAL MISCELLANEOUS MATERIAL RECOVERED (tons):	

VOLUME TO WEIGHT CONVERSION FACTORS

MATERIAL	EQUIVALENT		MATERIAL	EQUIVALENT		MATERIAL	EQUIVALENT	
GLASS – whole bottles	1 cubic yard	0.35 tons	GLASS - crushed mechanically	1 cubic yard	0.88 tons	ALUMINUM – cans – whole	1 cubic yard	0.03 tons
GLASS - semi crushed	1 cubic yard	0.70 tons	GLASS - uncrushed manually	55 gallon drum	0.16 tons	ALUMINUM – cans – flattened	1 cubic yard	0.125 tons
PAPER - high grade loose	1 cubic yard	0.18 tons	PLASTIC – PET – whole	1 cubic yard	0.015 tons			
PAPER - high grade baled	1 cubic yard	0.36 tons	PLASTIC – PET – flattened	1 cubic yard	0.04 tons			
PAPER - mixed loose	1 cubic yard	0.15 tons	PLASTIC – PET – baled	1 cubic yard	0.38 tons	WHITE GOODS - uncompacted	1 cubic yard	0.10 tons
NEWSPRINT - loose	1 cubic yard	0.29 tons	PLASTIC – styrofoam	1 cubic yard	0.02 tons	WHITE GOODS - compacted	1 cubic yard	0.5 tons
NEWSPRINT - compacted	1 cubic yard	0.43 tons	PLASTIC – HDPE – whole	1 cubic yard	0.012 tons			
CORRUGATED – loose	1 cubic yard	0.015 tons	PLASTIC – HDPE – flattened 1	1 cubic yard	0.03 tons			
CORRUGATED - baled	1 cubic yard	0.55 tons	PLASTIC – HDPE – baled	1 cubic yard	0.38 tons	FERROUS METAL - cans whole	1 cubic yard	0.08 tons
			PLASTIC – mixed (grocery bags)	45 gallon bag	0.01 tons	FERROUS METAL - cans	1 cubic yard	0.43 tons

SECTION 9 – UNAUTHORIZED SOLID WASTE

Has unauthorized solid waste been received at the facility during the reporting period?

☐ Yes ■ No If yes, give information below for each incident (attach additional sheets if necessary):

Date Received	Type Received	Date Disposed	Disposal Method & Location

Radiation Monitoring

Does your facility use a fixed radiation monitor? __■__ Yes _____ No

Identify Manufacturer Ludlum and Model 375 of fixed unit.

Does your facility use a portable radiation monitor? __■__ Yes _____ No

Identify Manufacturer Ludlum and Model 702i of portable unit.

If the radiation monitors have been triggered give information below for each incident:

Incident Number	Received		Hauler	Origin	Truck Number	Reading	Disposal Status	Removed	
	Date	Time						Date	Time

See Attachment 18 for the Radiation Monitoring Summary Table

SECTION 10 - WASTE IN PLACE

Summary by Waste Type and Year

Include all active and inactive sections of the landfill. Report waste disposed annually by type, if known, in tons per year. Report total waste disposed, if breakdown of types is not available. In the case where more than one landfill section operated in a given year identify each separately, if known. If the annual amount is not available, report the quantities for a range of years. If you include amounts from old, closed landfills then clearly identify them on the table and explain below. In each row, report quantities disposed each year (or group of years if individual years unknown) for each waste type. Report cumulative WIP at bottom (sum of annual quantities disposed). Add additional sheets as necessary.

Year	MSW (tons)	Asbestos Waste (tons)	Ash (tons)	C&D Debris (tons)	Industrial Waste (tons)	Petroleum Contaminated Soil (tons)	Sewage Treatment Plant Sludge (tons)	Other (tons)	Year(s) Total (tons)	Identify Landfill Section(s) Used
WIP Cumulative Total										

Data for years 1998 through 2019 are included in Attachment 4 - Waste in Place Summary Table.

Overall in place volume 7,612,253 cubic yards

Method for determining waste composition, if known. Waste manifest at the scale house

Explain if closed landfills are included above Not included

Waste Summary by Landfill Section

Provide waste in place information for all landfill sections.

Number of landfill sections: 5 contiguous sections all in operation

Original* section used (years) from 1998 to 2019

Section Footprint 61.9 acres

Capped with approved final cover system Yes _____ No ■

Percent capped 0

Waste in Place: 6,698,783 Tons 7,612,253 Cubic Yards, if known

Next* section used (years) from _____ to _____

Section Footprint _____ acres

Capped with approved final cover system Yes _____ No _____

Percent capped _____

Waste in Place: _____ Tons _____ Cubic Yards, if known

* If there are additional landfill sections, phases or cells, please provide the same waste in place information on additional sheets and attach to form.

SECTION 11 - LANDFILL GAS

Does the landfill have a landfill gas collection & control system?
Yes ■ No ____ If Yes: Active ■ Passive ___

Number of gas wells: 53 gas wells and 39 horizontal collectors

Total landfill footprint acreage 61.9

Total landfill acreage from which gas is collected 61.9

Landfill sections from which gas is collected 1, 2, 3, 4, 5A, and 5B

Landfill acreage from which gas is collected for energy recovery 61.9

Measured Methane Generation Rate*, k 0.04

Measured Potential Methane Generation Capacity*, L_o 100 m^3/Mg

NMOC Concentration* 384 ppmv as hexane

Does the landfill require a Title V Permit? Yes ■ No _____

Name of Landfill Gas Recovery (gas to energy or other use) Facility: Hyland Landfill Gas to Energy Plant

* Note: If Concentration NMOC, Lo and k are not known or included, default values will be used to calculate the NMOCs emissions from the Landfill.

Flare

Open and Enclosed Flares located at the Landfill and the Landfill Gas Recovery Facility:

Number of Flares: 1

Type of Flare: Opened Flare X Enclosed Flare _____

Please report units in cubic feet

Quantity of Gas Collected and Flared Annually 316,599,951 cubic feet
Flare Hours of Operation per Year 7,183 hours/year
Methane Percentage in Landfill Gas before flaring 44.8 %
Methane Destruction efficiency 98 %

Candlestick Flares:

Number of Candlestick Flares _____
Estimate of Gas Flared Candlestick Flare _____ cubic feet

Gas To Energy

Please report units in cubic feet

Number of Internal Combustion Engines: 3

Quantity of Gas collected for Internal Combustion Engine Annually 808,261,905 cubic feet
Methane Destruction efficiency 98 %
Methane Percentage in Landfill Gas before combustion 48.0 %
Utility Company Receiving Electricity RG&E

Gas Processed for Use (Other than gas to electricity)

Quantity of Gas Collected for Processing _____ cubic feet
Methane Percentage in Landfill Gas before processing _____ %
On-site or Off-site User of Gas _____

Landfill Gas Recovery Facility/Landfill Data

Facility Contact Larry Shilling Phone # (585)466-7271

Contact e-mail address larry.shilling@casella.com Fax # (_____)_____-_____

Operation and maintenance cost for calendar year: $_____

Does the LGRF experience shut downs: ■ Yes _____ No

If yes, indicate reasons for shut downs. List required submissions that have been attached to this form or the reasons for not attaching a required piece of information:

Utility breaker trips, gas collection system repairs, requests by the utility to shut down the plant, facility maintenance, high oxygen trips, high vacuum trips, and parts replacement.

Year landfill opened: 1998 Anticipated landfill closure date: 2031

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Results of Condensate Sampling

Submit (attached to this form) condensate quality monitoring results accomplished in accordance with condensate sampling. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information:

On-Site provided a tabulated compilation of the condensate quality data. Attachment 2 includes this information.

Landfill Gas Utilized For Energy Recovery

Provide the following information for the landfill gas recovered for energy. **DO NOT INCLUDE THE GAS FLARED!**

	Landfill Gas Collected for Energy Recovery (Cubic Feet)	Steam* Generated (Cubic Feet)	Total Electricity* Generated for onsite and offsite use (K.W.H.)	Total Gas Processed for use other than electricity generation (Cubic Feet)	Condensate Generated (Gallons)	Facility Operation (Hours)
January	58,317,486	N/A	3,055,000	N/A	Commingled	743
February	53,040,397	N/A	2,974,000	N/A	With	668
March	58,935,408	N/A	3,354,000	N/A	Leachate	744
April	58,973,256	N/A	3,221,000	N/A		696
May	61,389,722	N/A	3,257,000	N/A		705
June	74,346,043	N/A	3,319,000	N/A		718
July	71,056,659	N/A	3,320,000	N/A		730
August	69,691,280	N/A	3,187,000	N/A		726
September	73,390,345	N/A	3,206,000	N/A		714
October	77,346,507	N/A	3,321,000	N/A		744
November	74,218,128	N/A	3,120,000	N/A		718
December	77,556,674	N/A	3,263,000	N/A		744
ANNUAL TOTAL	808,261,905	N/A	38,597,000	N/A		8,650

* Provide where applicable.

Normal Weekdays of Operation 7 Normal Hours of Operation 24

Electricity Generated and used/marketed offsite 37,070,000 KWH
Electricity Generated and used onsite 1,527,000 KWH
Gas Processed and used/marketed offsite 0 cubic feet
Gas Processed and used onsite 0 cubic feet

Describe the collection, storage, treatment and disposal techniques used in managing the condensate:

Condensate generated in the landfill gas collection system is collected by condensate traps, knockout pots, and the leachate collection system. The condensate is then pumped to a lined surface impoundment where it is removed by a tanker truck and hauled to a waste treatment facility.

SECTION 12 - COST ESTIMATES AND FINANCIAL ASSURANCE DOCUMENTS

Are there required cost estimates and financial assurance documents for closure and post-closure care?

☒ Yes ☐ No If yes, attach additional sheets reflecting annual adjustments for inflation and any changes to the Closure Plan?

Previously submitted to NYSDEC Region 9 and no changes are required.

SECTION 13 – PROBLEMS

Were any problems encountered during the reporting period (e.g., specific occurrences which have led to changes in facility procedures)?

☐ Yes ☒ No If yes, attach additional sheets identifying each problem and the methods for resolution of the problem.

SECTION 14 – CHANGES

Were there any changes from approved reports, plans, specifications, and permit conditions?

☐ Yes ☒ No If yes, attach additional sheets identifying changes with a justification for each change.

SECTION 15 – LANDFILL OPERATOR TRAINING

Name of trained landfill operator: Josh Haley

Name and location of training course: Landfill Operator Certification at Sheraton in Niagara Falls, NY

Date completed: 3/15/16

SECTION 16 - ANALYTICAL RESULTS

Submit (attached to this form) tables showing the sample collection date, the analytical results [including all peaks even if below the Method Detection Limits (MDL)], designation of upgradient wells and location number for each environmental monitoring point sampled, applicable water quality standards, and groundwater protection standards if established, MDL's, and Chemical Abstracts Service (CAS) numbers on all parameters. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information:

On-Site provided a compilation of the information required in Sections 16 through 21. Attachment 2 includes this information.

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SECTION 17 - COMPARING DATA

Submit (attached to this form) tables or graphical representations comparing current water quality with existing water quality and with upgradient water quality. These comparisons may include Piper diagrams, Stiff diagrams, tables, or other analyses. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information:

On-Site provided a compilation of the information required in Sections 16 through 21. Attachment 2 includes this information.

SECTION 18 - DISCUSSION OF RESULTS

Submit (attached to this form) a summary of any contraventions of State water quality standards, significant increases in concentrations above existing water quality, any exceedances of groundwater protection standards, and discussion of results, and any proposed modifications to the sampling and analysis schedule necessary to meet the Existing, Operational and Contingency water quality monitoring requirements. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information:

On-Site provided a compilation of the information required in Sections 16 through 21. Attachment 2 includes this information.

SECTION 19 - DATA QUALITY ASSESSMENT

Submit (attached to this form) any required data quality assessment reports. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information:

On-Site provided a compilation of the information required in Sections 16 through 21. Attachment 2 includes this information.

SECTION 20 - SUMMARIES OF MONITORING DATA

Submit (attached to this form) a summary of the water quality information presented in Sections 16 and 17 for the year of operation for which the Annual Report is made, noting any changes in water quality which have occurred throughout the year. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information:

On-Site provided a compilation of the information required in Sections 16 through 21. Attachment 2 includes this information.

SECTION 21 - SURFACE IMPOUNDMENTS

Does this landfill have a surface impoundment?

☒ Yes ☐ No If yes, repeat Sections 15 through 18 above for Quarterly Reports and Section 19 above for Annual report. Attach additional submissions required by this section.

This information is included in Attachment 2

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SECTION 22 - PERMIT/CONSENT ORDER REPORTING REQUIREMENTS

Are there any additional permit/consent order reporting requirements not covered by the previous sections of this form?

☒ Yes ☐ No If yes, attach additional sheets identifying the reporting requirements with their respective responses. See Attachment 5

SECTION 23 - SIGNATURE AND DATE BY OWNER OR OPERATOR

Owner or Operator must sign, date and submit one completed form to the appropriate Regional Office (See attachment for Regional Office addresses, email addresses and Materials Management Contacts).

The Owner or Operator must also submit one copy by email, fax or mail to:

New York State Department of Environmental Conservation
Division of Materials Management
Bureau of Solid Waste Management
625 Broadway
Albany, New York 12233-7260
Fax 518-402-9041
Email address: SWMFannualreport@dec.ny.gov

I certify, under penalty of law, that the data and other information identified in this report have been prepared under my direction and supervision in compliance with a system designed to ensure that qualified personnel properly and accurately gather and evaluate this information. I am aware that any false statement I make in such report is punishable pursuant to section 71-2703(2) of the Environmental Conservation Law and section 210.45 of the Penal Law.

Russell Anderson — Signature

2/20/2020 — Date

Russell Anderson — Name (Print or Type)

Manager of Landfill Compliance — Title (Print or Type)

Russell.Anderson@casella.com — Email (Print or Type)

26 Pleasant Street, Suite 2D — Address

Concord — City

New Hampshire 03301 — State and Zip

(603) 290-5846 — Phone Number

ATTACHMENTS: ☒ YES ☐ NO
(Please check appropriate line)

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ATTACHMENT 1 – LEACHATE LINE CLEANING LOGS

JAMKO
932 Sohn Alloway Road
Lyons, New York 14489
(315) 871-4420 tel
(315) 871-4430 fax

Daily Line Cleaning Record

Project No.: 6290 **Site Location:** Hyland Landfill **Date:** 4/30/19

Client: Casella Waste Systems **Jamko Technician(s):** Bade, Eberhardt, White **Weather:** clear

Location Cell / Street	Line Segment MH # to MH #		Pipe Diameter	Pipe Type	Total Length Linear Footage	Total Linear Footage Cleaned	No. of Passes	Water Used Total Gallons	Total Gallons Leachate Vac.
Cell 4C	Section 12A	into Hill	8"	HDPE	150	150	1		
Cell 4C	Section 12A	into Hill	8"	HDPE	150	150	Televised		
Cell 4C	Section 12	East to West	8"	HDPE	1300	500	1		
Cell 4C	Section 12	East to West	8"	HDPE	1300	500	Televised		
Cell 2	Section 6	Section 7	8"	HDPE	1358	700	2		
Cell 2	Section 6	Section 7	8"	HDPE	1358	700	Televised		
Cell 3A	Section 10	East to West	8"	HDPE	1365	650	1		
Cell 3A	Section 10	East to West	8"	HDPE	1365	650	Televised		
Lagoon	Vacuumed								

JAMKO
932 Sohn Alloway Road
Lyons, New York 14489
(315) 871-4420 tel
(315) 871-4430 fax

Daily Line Cleaning Record

Project No.: 6290 **Site Location:** Hyland Landfill **Date:** 5/1/19

Client: Casella Waste Systems **Jamko Technician(s):** Bade, Eberhardt, White **Weather:** clear

Location Cell / Street	Line Segment MH # to MH #		Pipe Diameter	Pipe Type	Total Length Linear Footage	Total Linear Footage Cleaned	No. of Passes	Water Used Total Gallons	Total Gallons Leachate Vac.
Cell 2	Section 5	Wye	8"	HDPE	745	745	1		
Cell 2	Section 5	Wye	8"	HDPE	745	745	Televised		
Cell 2	Section 8	East to West	8"	HDPE	1299	650	1		
Cell 2	Section 8	East to West	8"	HDPE	1299	650	Televised		
Cell 5A	Section 15	to Cap	8"	HDPE	800	800	2		
Cell 5A	Section 15	to Cap	8"	HDPE	800	800	Televised		
Cell 5A	Section 14	to Cap	8"	HDPE	750	750	1		
Cell 5A	Section 14	to Cap	8"	HDPE	750	750	Televised		
Cell 4A	Section 13	Section 11	8"	HDPE	588	588	1		
Cell 4	Section 12	West to East	8"	HDPE	1300	700	1		
Cell 4A	Section 11	Section 13	8"	HDPE	300	300	2		
Cell 3A	Section 9	to Cap	8"	HDPE	1047	1047	1		
Cell 2	Section 7	Section 6	8"	HDPE	720	720	1		

JAMKO
932 Sohn Alloway Road
Lyons, New York 14489
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(315) 871-4430 fax

Daily Line Cleaning Record

Project No.: 6290 **Site Location:** Hyland Landfill **Date:** 5/2/19

Client: Casella Waste Systems **Jamko Technician(s):** Bade, Eberhardt, White **Weather:** clear

Location Cell / Street	Line Segment MH # to MH #		Pipe Diameter	Pipe Type	Total Length Linear Footage	Total Linear Footage Cleaned	No. of Passes	Water Used Total Gallons	Total Gallons Leachate Vac.
Cell 2	Section 8	West to East	8"	HDPE	675	675	1		
Cell 2	Section 4	South	8"	HDPE	770	770	1		
Cell 5	Sump 5	Vacuum & Flush	15"	HDPE	350	350	2		
Cell 3	Sump 3	Vacuum & Flush	15"	HDPE	250	250	2		
Cell 1 & 2	Sump 2	Vacuum & Flush	15"	HDPE	250	250	2		
Cell 4	Sump 4	Vacuum & Flush	15"	HDPE	250	250	2		

JAMKO
932 Sohn Alloway Road
Lyons, New York 14489
(315) 871-4420 tel
(315) 871-4430 fax

Daily Line Cleaning Record

Project No.: 6290 **Site Location:** Hyland Landfill **Date:** 5/3/19

Client: Casella Waste Systems **Jamko Technician(s):** Bade, Eberhardt, White **Weather:** clear

Location Cell / Street	Line Segment MH # to MH #		Pipe Diameter	Pipe Type	Total Length Linear Footage	Total Linear Footage Cleaned	No. of Passes	Water Used Total Gallons	Total Gallons Leachate Vac.
Cell 1	Section 1	Section 4 North	8"	HDPE	676	676	1		
Cell 1	Section 2	Section 4 North	8"	HDPE	770	770	1		
Cell 1	Section 3	Section 4 North	8"	HDPE	668	668	1		
Cell 1	Section 4 North	North to South	8"	HDPE	770	770	1		
Cell 1 & 2	Section 4	South to North	8"	HDPE	800	800	1		
Cell 1 & 2	Sump 1	Vacuum & Flush	15"	HDPE	250	250	2		
Tire Wash	Vacuum & Flush								

JAMKO
932 Sohn Alloway Road
Lyons, New York 14489
(315) 871-4420 tel
(315) 871-4430 fax

Daily Line Cleaning Record

Page: of 6

Project No.: 6290 **Site Location:** Hyland Landfill **Date:** 5/6/19

Client: Casella Waste Systems **Jamko Technician(s):** Bade, Eberhardt, White **Weather:** clear

Location Cell / Street	Line Segment MH # to MH #		Pipe Diameter	Pipe Type	Total Length Linear Footage	Total Linear Footage Cleaned	No. of Passes	Water Used Total Gallons	Total Gallons Leachate Vac.
Lagoon	Vacuumed								

JAMKO
932 Sohn Alloway Road
Lyons, New York 14489
(315) 871-4420 tel
(315) 871-4430 fax

Daily Line Cleaning Record

Project No.: 6290 **Site Location:** Hyland Landfill **Date:** 5/7/19

Client: Casella Waste Systems **Jamko Technician(s):** Bade, Eberhardt, White **Weather:** clear

Location Cell / Street	Line Segment MH # to MH #		Pipe Diameter	Pipe Type	Total Length Linear Footage	Total Linear Footage Cleaned	No. of Passes	Water Used Total Gallons	Total Gallons Leachate Vac.
Cell 4A	Section 13	Section 11	8"	HDPE	588	588	Televise		
Cell 4	Section 12	West to East	8"	HDPE	1300	800	Televise		
Cell 4A	Section 11	Section 13	8"	HDPE	300	300	Televise		
Cell 3A	Section 9	to End	8"	HDPE	1047	1047	Televise		
Cell 3	Section 10	West to East	8"	HDPE	650	650	Televise		
Cell 2	Section 8	West to East	8"	HDPE	675	675	Televise		
Cell 2	Section 7	Section 6	8"	HDPE	720	720	Televise		
Cell 1	Section 4	South to North	8"	HDPE	1504	770	Televise		
Cell 1	Section 4	North to South	8"	HDPE	1504	770	Televise		
Cell 1	Section 3	Section 4 North	8"	HDPE	668	668	Televise		
Cell 1	Section 2	Section 4 North	8"	HDPE	770	770	Televise		
Cell 1	Section 1	Section 4 North	8"	HDPE	676	676	Televise		

JAMKO
932 Sohn Alloway Road
Lyons, New York 14489
(315) 871-4420 tel
(315) 871-4430 fax

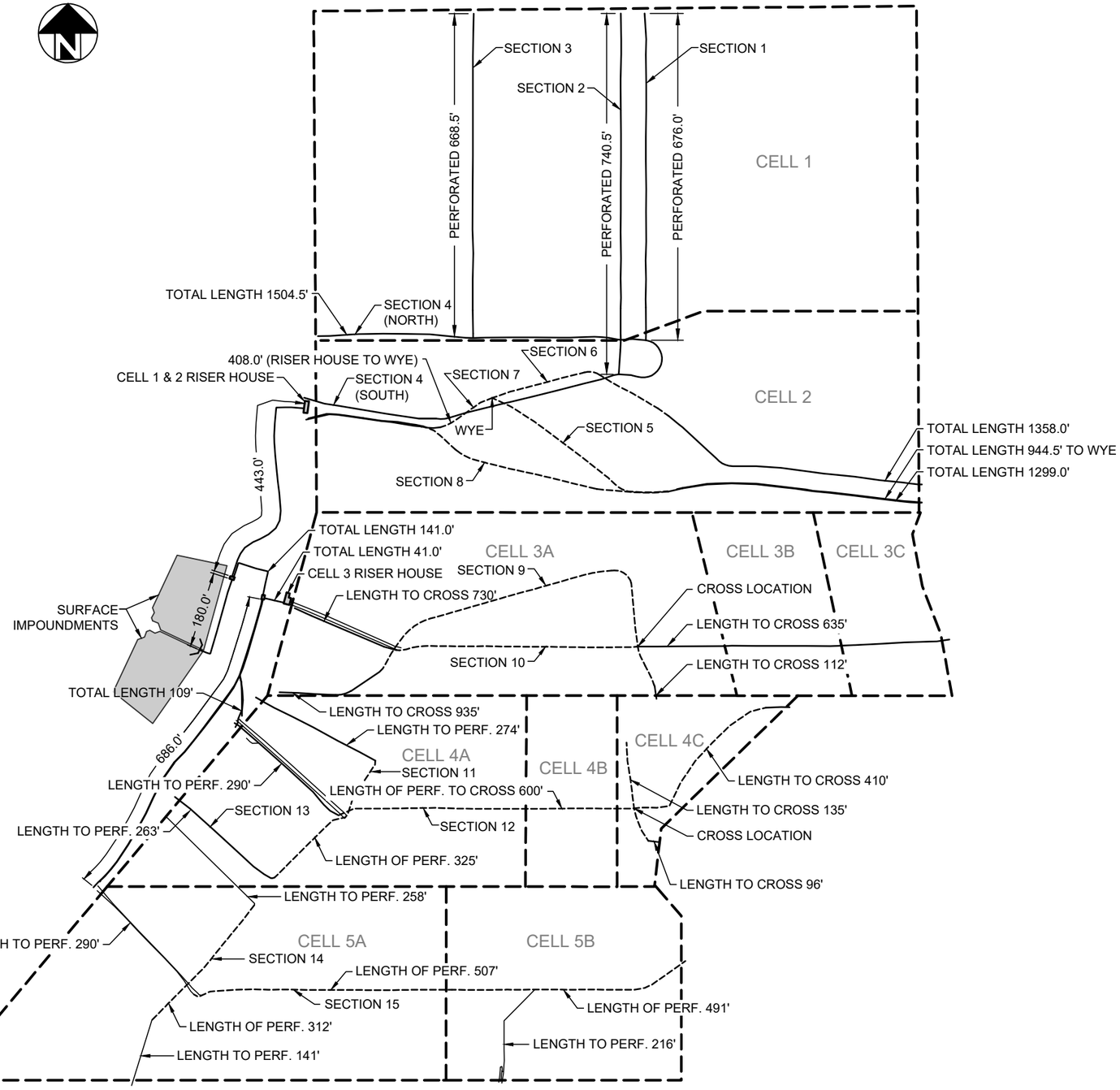
Daily Line Cleaning Record

Page: 1

Project No.: 6365 **Site Location:** Hyland Landfill **Date:** 11/4/19

Client: Casella Waste Systems **Jamko Technician(s):** Brandon, Vanhoute **Weather:**

Location Cell / Street	Line Segment MH # to MH #		Pipe Diameter	Pipe Type	Total Length Linear Footage	Total Linear Footage Cleaned	No. of Passes	Water Used Total Gallons	Total Gallons Leachate Vac.
Cell 5	CO-2	floor	8"	HDPE	745'	745'	1	n/a	n/a
	CO	floor	8"	HDPE	480'	480'	1	n/a	n/a



LEGEND

- CELL BOUNDARY
- SOLID LEACHATE PIPE
- PERFORATED LEACHATE PIPE

NOTE:
1. Leachate piping adapted from the following drawings prepared by B&R Surveying, P.L.L.C.

- "Cell 3A Primary Leachate Collection System Record Plan dated" December 10, 2007

- "Leachate Transfer System Record Plans" dated January 7, 2008

- "Primary Leachate Collection Pipe Length Map" dated May 8, 2005

- "Cell 3C Primary Leachate Collection Stone Record Plan" dated August 21, 2010.

- "Cell 4A Exterior Leachate, Gas Collection and Conduit Record Plan" dated January 17, 2012.

- "Cell 4A Primary Leachate Collection System Record Plan" dated January 12, 2012.

- "Cell 4B Primary Leachate Collection System Record Plan" dated October 17, 2012.

- "Cell 4C Primary Leachate Collection System Record Plan" dated November 10, 2014.

- "Cell 5A Primary Leachate Collection System Record Plan" dated January 8, 2018.

- Cell 5B Primary Leachate Collection System Record Plan" dated August 13, 2019.

250' 0 125' 250'

SCALE: 1" = 250'

McMahon & Mann
Consulting Engineering and Geology, P.C.
2495 Main Street, Suite 432
Buffalo, NY 14214
(716) 834-8932
www.mmce.net

HYLAND FACILITY
ALLEGANY COUNTY
NEW YORK

LEACHATE PIPING LENGTH

FIGURE 1

DWG. NO. 93002-651

FEBRUARY 2020

ATTACHMENT 2 – FOURTH QUARTER/ANNUAL 2019 ENVIRONMENTAL MONITORING REPORT

Prepared For:

Hyland Facility Associates

6653 Herdman Road

Angelica, New York

Fourth Quarter/Annual 2019

Environmental Monitoring Report

Prepared by:

On-Site Geological Services, D.P.C.

72 Railroad Avenue

Wellsville, New York

February 2020

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Tables

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Figures

1.0 OVERVIEW (NYSDEC SECTION 19 – SUMMARY OF MONITORING DATA)

This report is intended to satisfy the environmental monitoring portion of sections 3, 4, 11, and 15, through 20 of the New York State Department of Environmental Conservation (NYSDEC) Active Municipal Solid Waste Landfill annual report form, and is organized as follows.

- Section 2 - Primary Leachate (NYSDEC Section 3)
- Section 3 - Secondary Leachate (NYSDEC Section 4)
- Section 4 - Results of Condensate Sampling (NYSDEC Section 11)
- Section 5 - Analytical Results (NYSDEC Section 15)
- Section 6 - Comparing Data (NYSDEC Sections 16)
- Section 7 - Discussion of Results (NYSDEC Sections 17)
- Section 8 - Surface Impoundments (NYSDEC Section 20)
- Section 9 - Data Quality Assessment (NYSDEC Section 18)

Environmental monitoring is conducted in accordance with the *Hyland Facility Associates Landfill Expansion Operation and Maintenance Manual Appendix B Environmental Monitoring Plan,* dated December 2013 (EMP),

1.1 Summary of 2019 Monitoring Results

The table below summarizes the 2019 sampling events.

Quarter	Dates Sampled	Analysis[1]	Condensate Sampling	Leachate Sampling
1st	2/4–2/6/2019	Note [2]	NR	Expanded[5]
2nd	4/22-4/25/2019	Baseline[3]	NR	NR
3rd	7/29-8/5/2019	Routine[4]	Baseline[3]	Expanded[5]
4th	11/4-11/12/2019	Routine[4]	NR	NR

1 - Typically includes sampling and analysis of monitoring wells, groundwater suppression systems, surface water and sediment samples. Fourth quarter also includes routine analysis of residential water supplies.
2 - Includes routine sampling and analysis of groundwater suppression systems. Surface water, sediment and operational monitoring wells not required during first quarter
3 - 6 NYCRR Part 360 Baseline Parameter List Analysis (baseline parameters)
4 - 6 NYCRR Part 360 Routine Parameter List Analysis (routine parameters)
5 - 6 NYCRR Part 360 Expanded Parameter List Analysis (expanded parameters)
NR - Not required

First Quarter 2019

In accordance with the approved Environmental Monitoring Plan (EMP), first quarter sampling was conducted for routine parameters at groundwater suppression systems (GSS-2 E/F and GSS-3 baseline parameters) and expanded parameters at primary leachate and secondary leachate locations.

During first quarter 2019 Groundwater Suppression samples GSS-1, GSS-2E/F, GSS-2G/H, GSS-3, GSS-4 and GSS-5 samples were collected between February 4 and 5, 2019. First quarter groundwater suppression system results are consistent with historic data and ambient

groundwater quality. Primary and secondary leachate samples were collected between February 4 and 6, 2019. Primary and secondary leachate results are further discussed in Section 2.

Second Quarter 2019

Second quarter 2019 baseline sampling and analysis was conducted as required with the following notable items. Monitoring well MW-48A, groundwater suppression GSS-4 and GSS-5 as well as surface water/sediment locations West Ditch and DB-2 were not sampled due to either dry conditions or insufficient water. The other scheduled sampling of groundwater, groundwater suppression systems and surface water was completed with results generally consistent with historic monitoring data.

Third Quarter 2019

Third quarter monitoring activities were completed in August 2019. Third quarter sampling was conducted for routine parameters for groundwater, surface water and groundwater suppression systems. Baseline parameters employed for condensate, groundwater suppression systems GSS-2 E/F and GSS-3. Expanded parameter sampling and analysis completed at primary leachate and secondary leachate locations.

Items of note are discussed below.

- Monitoring well MW-48A not sampled due to insufficient groundwater.
- Surface water / sediment locations East Perimeter Ditch, West Ditch, DB-1, DB-2 and groundwater suppression GSS-4 were not sampled due to dry conditions or insufficient water.
- Scheduled semi-annual expanded parameter sampling and analysis conducted at primary and secondary leachate locations occurred on July 31, 2019 with results discussed in Section 2.
- Third quarter 2019 analytical results are generally consistent with historic results.

Fourth Quarter 2019

The fourth quarter 2019 sampling event included routine parameter sampling and analysis of groundwater, surface water, groundwater suppression systems and eight residential water supply locations. Additionally groundwater suppression systems GSS-2 E/F and GSS-3 were sampled for baseline parameters. Monitoring well MW-48A, groundwater suppression GSS-4, as well as surface water/sediment locations East Ditch, West Ditch and DB-2 were not sampled due to insufficient water. Fourth quarter 2019 results are consistent with historic results. Details of the fourth quarter 2019 monitoring results are presented in Sections 5.0 through 9.0.

2.0 PRIMARY LEACHATE (NYSDEC SECTION 3)

In accordance with the EMP, primary leachate sampling is required semi-annually. Combined leachate sampling is conducted at the surface impoundments, which have been in operation since 2008.

The first and third quarter primary leachate samples were collected on February 6 and July 31, 2019, respectively. Analytical results for the primary leachate collection system samples from the last three leachate sampling events are presented in Table 1. Various inorganic compounds, organic compounds and wet chemistry parameters were detected at typical concentrations for primary leachate. Detected organic parameters from the first and third quarters 2019 primary leachate samples are typical of historic results and shown in the table below.

Parameter	PLCS 2/6/2019 (mg/L)	PLCS 7/31/2019 (mg/L)
2,4-Dimethylphenol	0.0085 J	
2-Butanone (MEK)	1.8 D	14 D
2-Hexanone	0.017 J	0.064 J
2-Methylnaphthalene	0.0023 J	0.0071 J
2-Methylphenol	0.018 J	0.081
3/4-Methylphenol	0.23	0.61 D
4-Methyl-2-pentanone	0.17 J	0.31 J
Acenaphthene		0.01 J
Acetone	2.8	11 D
Acetonitrile		0.27 J
Acetophenone	0.015 J	0.16
Benzyl alcohol		0.015 J
Dibenzofuran		0.0084 J
Ethyl benzene	0.0079 J	0.012 J
Fluorene		0.011 J
Isobutyl alcohol		2.1 J
m&p-Xylene	0.018 J	0.022 J
Naphthalene	0.0079 J	0.021 J
o-Toluidine	0.024	0.097
o-Xylene	0.0096 J	0.013 J
Phenanthrene	0.0039 J	0.015 J
Phenol	0.043	0.38
Toluene	0.042 J	0.024 J

J - Estimated D- Concentration is a result of dilution

3.0 SECONDARY LEACHATE (NYSDEC SECTION 4)

In accordance with the facility EMP, secondary leachate collection system sampling is required semi-annually and was conducted during the first and third quarters 2019. Analytical results for the first and third quarter 2019 secondary leachate samples are presented in Table 1.

The 2019 secondary leachate detected organics are presented in the tables below.

Parameter	First Quarter 2019 Secondary Leachate Organic Detects (mg/L)						
	SLCS-1 C/D 2/5/2019	SLCS-2 E/F 2/5/2019	SLCS-2 G/H 2/4/2019	SLCS-3 2/6/2019	SLCS-4 2/4/2019	SLCS-5 1/16/2019	SLCS-5 2/4/2019
2-Methylphenol		0.001 J					
3/4-Methylphenol		0.0014 J					
o-Toluidine		0.0045 J					
1,1-Dichloroethane			0.00034 J			0.00038 J	0.0003 J
1,2-Dichloroethane					0.00034 J	0.0058	0.0033 J
4-Methyl-2-pentanone						0.0019 J	
Acetone					0.0031 J		
Benzene			0.00071 J	0.002 J	0.00025 J		
Chloromethane	0.00028 J	0.016 J					0.0004 J
cis-1,2-Dichloroethene			0.00098 J			0.0017 J	

J - Estimated

Parameter	Third Quarter 2019 Secondary Leachate Organic Detects (mg/L)									
	LP1S 7/31/2019	LP1S 8/13/2019	LP2S 7/31/2019	SLCS-1 A/B 7/31/2019	SLCS-1 C/D 7/31/2019	SLCS-2 E/F 7/31/2019	SLCS-2 G/H 7/31/2019	SLCS-3 7/31/2019	SLCS-4 7/31/2019	SLCS-5 7/31/2019
1,1-Dichloroethane							0.00046 J			0.00034 J
1,2-Dichloroethane		0.0002 J							0.00023 J	0.0013 J
Acetone	0.0033 BJ	0.0043 BJ	0.003 BJ	0.0047 J	0.003 J		0.0034 J	0.017 J	0.0069 J	0.0031 BJ
Benzene							0.00085 J	0.0024 J	0.00027 J	
Chloroform								0.0016 J		
Chloromethane		0.00033 BJ		0.00049 BJ	0.0004 BJ	0.017 J	0.00044 BJ	0.002 BJ	0.00034 BJ	
cis-1,2-Dichloroethene							0.0016 J		0.00024 J	0.0011 J
Methylene chloride										0.00067 J
Iodomethane				0.0017 BJ	0.0016 BJ	0.077 J	0.0015 BJ		0.0015 BJ	

J/BJ - Estimated

4.0 RESULTS OF CONDENSATE SAMPLING (NYSDEC SECTION 11)

As required by landfill permit condition 57, condensate is required to be sampled and analyzed for baseline parameters quarterly for the first year of operation and annually thereafter. Therefore the current sampling frequency is annual. A landfill gas condensate sample was collected on August 5, 2019 and analyzed for baseline parameters. The sample was collected from the knock-out tank located north of Cell 1 and west of MW-19. The knock-out tank collects condensate from the gas header leading to the electrical cogeneration plant. Condensate results from the last four samplings are presented in Table 2. Third quarter 2019 gas condensate sample results are consistent with historic results. The detected organic parameters from the third quarter 2019 gas condensate samples are shown in the table below.

Parameter	Result mg/L
1,4-Dichlorobenzene	0.02 J
2-Butanone (MEK)	3.5
4-Methyl-2-pentanone	0.15 J
Acetone	4.5
Carbon disulfide	0.018 J
Chloroform	0.018 J
Ethyl benzene	0.049 J
m&p-Xylene	0.083 J
o-Xylene	0.043 J
Toluene	0.083 J

J – Estimated

5.0 ANALYTICAL RESULTS (NYSDEC SECTION 15)

The fourth quarter 2019 sampling of groundwater, surface water and groundwater suppression systems, was completed between November 4 and 12, 2019. Sampling was conducted by On-Site and laboratory analysis was performed by ALS Environmental, located in Rochester, New York. Field sampling forms are included as Appendix A. Tables presenting the fourth quarter 2019 field parameters and analytical results are included with the appropriate NYSDEC standards as follows:

- Table 3 – Fourth Quarter 2019 Bedrock Well Analytical Results;
- Table 4 – Fourth Quarter 2019 Overburden Well Analytical Results;
- Table 5 – Fourth Quarter 2019 Surface Water Analytical results; and
- Table 6 – Fourth Quarter 2019 Groundwater Suppression Analytical Results.

The fourth quarter 2019 sampling event included scheduled routine parameter analyses. Monitoring of groundwater, surface water, and groundwater suppression systems, was conducted at the locations and dates listed in the table below. Please see Figure 1 for sampling locations.

Bedrock Monitoring Wells	
MW-14	11/5/2019
MW-19	11/6/2019
MW-31	11/7/2019
MW-34	11/4/2019
MW-37	11/6/2019
MW-40	11/7/2019
MW-48	11/4/2019

Groundwater Suppression System	
GSS-1	11/5/2019
GSS-2 E/F	11/5/2019
GSS-2 G/H	11/5/2019
GSS-3	11/4/2019
GSS-4[1]	11/4-7/2019
GSS-5	11/4/2019

Overburden Monitoring Wells	
MW-26	11/5/2019
MW-34A	11/5/2019
MW-36A	11/5-11/2019
MW-37A	11/5/2019
MW-40A	11/5-11/2019
MW-41A	11/5/2019
MW-42A	11/5-7/2019

Surface Water/Sediment	
East Perimeter Ditch[1]	11/11/2019
West Ditch[1]	11/11/2019
DB-1	11/7/2019
DB-2[1]	11/11/2019
DB-3	11/11/2019

Overburden Monitoring Wells	
MW-45A	11/5/2019
MW-47A	11/6/2019
MW-48A[1]	11/12/2019

Notes:
1 - Insufficient water present, no sample collected

Prior to commencing groundwater purging and sampling activities, static water levels were measured at 17 monitoring wells that were scheduled for sampling. Static water level measurements and associated groundwater elevations are provided in the table below.

Well	Date Measured	Measuring Point Elevation (ft. amsl)	Depth to Water (ft.)	Groundwater Elevation (ft. amsl)
Bedrock Wells				
MW-14	11/4/2019	1970.41	38.50	1931.91
MW-19	11/6/2019	1937.2	44.84	1892.36
MW-31	11/7/2019	1952.78	13.81	1938.97
MW-34	11/4/2019	1849.27	150.09	1699.18
MW-37	11/6/2019	1885.18	33.80	1851.38
MW-40	11/7/2019	1918.35	48.35	1870.00
MW-48	11/4/2019	1861.36	155.69	1705.67
Overburden Wells				
MW-26	11/4/2019	1946.37	13.00	1933.37
MW-34A	11/4/2019	1849.22	92.27	1756.95
MW-36A	11/4/2019	1938.88	61.46	1877.42
MW-37A	11/4/2019	1885.79	31.92	1853.87
MW-40A	11/5/2019	1922.9	32.78	1890.12
MW-41A	11/5/5019	1916.83	54.94	1861.89
MW-42A	11/5/2019	1916.46	65.09	1851.37
MW-45A	11/4/2019	1850.38	86.95	1763.43
MW-47A	11/6/2019	1890.62	27.00	1863.62
MW-48A	11/4/2019	1861.32	>102.49	<1758.83

5.1 Perimeter Gas Probe Monitoring

Gas probe monitoring was conducted (as required by the EMP) on November 1, 2019 at 15 gas probes located around the perimeter of Cells 1 through 5 (Figure 1). Monitoring included pressure, methane and depth to water measurements using a GEM 2000 landfill gas meter and a Keck water level meter. Fourth quarter 2019 gas probe monitoring data is presented in the table below.

GAS PROBE	DATE	PRESSURE (IN-H_20)	METHANE (%)	DTW (FT)
GP-1	11/1/2019	-0.23	0	20.47
GP-2	11/1/2019	-0.23	0	> 29.12
GP-3	11/1/2019	-0.23	0	7.83
GP-4	11/1/2019	-0.23	0	5.53
GP-5	11/1/2019	-0.23	0	30.71
GP-9	11/1/2019	-0.23	0	12.33
GP-10	11/1/2019	-0.23	0	21.24
GP-11	11/1/2019	-0.23	0	4.78
GP-12	11/1/2019	-0.23	0	8.74
GP-13	11/1/2019	-0.23	0	6.04
GP-14	11/1/2019	-0.23	0	13.69
GP-15	11/1/2019	-0.23	0	9.31
GP-17	11/1/2019	-0.23	0	27.98
GP-18	11/1/2019	-0.23	0	> 27.28
GP-19	11/1/2019	-0.23	0	> 35.88

Monitored by: Kevin Dye

Meter: GEM 2000 / Keck water meter

Weather: 39 degrees Cloudy, lite snow

6.0 COMPARING DATA (NYSDEC SECTION 16)

The current operational monitoring well network is presented in Figure 1. Site specific Existing Water Quality Values (EWQVs) have been established for the overburden and bedrock water bearing zones using pre-operational water quality data as required in 6 NYCRR Part 360. Starting with the third quarter 2008, EWQVs were revised to include pre-operational water quality data from Cell 3 monitoring wells. The pre-operational water quality dataset used includes analytical results from select Cell 1, 2 and 3 monitoring wells listed in the table below.

Bedrock Wells	Overburden Wells
MW-14	MW-26
MW-19	MW-36A
MW-31	MW-37A
MW-37	MW-38A
MW-38	MW-39A
MW-40	MW-40A
	MW-41A
	MW-47A

As defined by 6 NYCRR Part 360, a EWQV is the arithmetic mean for each parameter. These values were calculated by summing the test results of individual parameters for each well and

dividing by the number of times a test value was recorded. Standard deviations were also calculated from the same data set. The mean plus three standard deviations was calculated by adding three standard deviations to the calculated arithmetic mean for each parameter detected. The last column in each table lists the NYSDEC Class GA Water Quality Standards (Class GA Standards) included in NYSDEC Water Quality Regulations NYCRR Title 6, Chapter X Parts 700-705.

Two EWQVs are presented in Tables 7 and 8 for pre-operational water quality data values for inorganic parameters. The first value displayed is compared with operational metals data for samples having turbidity values less than 50 NTU. The second value displayed is compared with samples that have turbidities greater than 50 NTU.

Please see Tables 7 and 8 for a comparison of groundwater results to EWQVs and Class GA Standards. Additionally, Table 7A provides an intra-well EWQV comparison for monitoring well MW-48. Table 9 provides surface water data for the last five quarters. Table 10 provides sediment data for the last five quarters. Table 11 provides groundwater suppression system data for the last five quarters. A discussion of results is provided in Section 7.0 below.

7.0 DISCUSSION OF RESULTS (NYSDEC SECTIONS 17)

This section includes a narrative pertaining to results greater than EWQVs and/or NYSDEC water quality standards, significant changes in water quality and a general discussion of results. In general, analytical results are consistent with historic monitoring data and ambient water quality.

7.1 Bedrock Wells

Fourth Quarter 2019 routine parameter analyses of bedrock monitoring well groundwater samples are consistent with historic data and generally representative of ambient water quality. Fourth quarter 2019 bedrock well results are compared to EWQVs and Class GA Standards below.

- Upgradient well MW-14 results are within EWQVs and Class GA Standards.
- Upgradient well MW-19 exhibits typical results with Turbidity at 6.22 NTU and Iron at 0.43 B mg/L exceeding Class GA Standards, but remaining below EWQVs. Sodium at 16.4 mg/L exceeds the EWQV plus three standard deviations, but remains below Class GA Standard. The remaining results are within EWQVs and Class GA Standards.
- Upgradient well MW-31 exhibits Field pH at 6.2 S.U., which is outside the range of Class GA Standard. Chloride at 53.0 mg/L exceeds and EWQV plus three standard deviations. Remaining results remain within EWQVs and Class GA Standards.
- Downgradient well MW-34 sampling results show Total Phenolics at 0.0014 J exceeding the Class GA Standard. Sodium at 75.4 mg/L exceeds the Class GA Standard and EWQV plus three standard deviations. Remaining results are within EWQVs and Class GA Standards. Fourth quarter MW-34 results are consistent with historic results.
- At downgradient well MW-37, results are within EWQVs and Class GA Standards.

- Cell 5A downgradient well MW-48 exhibits Turbidity at 6.58 NTU and Total Phenolics at 0.0015 J mg/L, both exceeding the Class GA Standards but remaining below the EWQVs. Calcium at 158 mg/L, Magnesium at 48 mg/L and Hardness at 593 mg/L all exceed the EWQV plus three standard deviations. Sodium at 33.8 mg/L, Sulfate at 412 mg/L and Total Dissolved Solids (TDS) at 815 mg/L exceed the Class GA Standard and EWQV plus three standard deviations. An intra-well EWQV data set has been established for MW-48 as presented in Table 7A. Fourth quarter 2019 MW-48 results are within intra-well EWQVs.

7.2 Overburden Wells

Fourth quarter 2019 routine parameter analysis of groundwater from wells screened in overburden are consistent with historic data. Fourth quarter overburden wells analytical results are compared to EWQVs and Class GA Standards below.

- Upgradient well MW-26 exhibited Field pH at 6.48 S.U., Sodium at 60.1 mg/L and TDS at 804 mg/L. These results are not within Class GA Standards, but are inside EWQVs. Chemical Oxygen Demand (COD) and Chloride at concentrations of 23.2 mg/L and 99.5 mg/L, respectively, exceed EWQV plus three standard deviations, but remain below Class GA Standards. The remaining results are below EWQVs and Class GA Standards. Fourth quarter MW-26 results are consistent with historic data.
- During the fourth quarter 2019, MW-34A was bailed dry and recovered adequately to allow routine parameter sample collection over a span of two days. Fourth quarter 2019 sample results are within EWQVs and Class GA Standards with the following exceptions. Turbidity at 8.16 NTU, is above Class GA Standard, but remains below EWQV. Iron at 4.34 mg/L, Manganese at 1.97 mg/L, Sodium at 92.2 mg/L, Sulfate at 1350 mg/L and TDS at 2050 mg/L each exceed EWQVs and Class GA Standards. The remaining results are within EWQVs and Class GA Standards. Fourth quarter MW-34A results are typical of historic results.
- Upgradient well MW-36A exhibited Turbidity at 7.58 NTU, Sodium at 76.1 mg/L and Total Phenolics at 0.0015 BJ mg/L exceeding Class GA Standards, but remaining below EWQVs. Fourth quarter results show Sulfate at 1800 mg/L and TDS at 2990 mg/L, both exceeding EWQVs and Class GA Standards. Fourth quarter MW-36A results are consistent with historic data.
- Downgradient well MW-37A exhibits historically consistent results with Turbidity at 5.99 NTU, Sodium at 43.3 mg/L, Sulfate at 639 mg/L, TDS at 1270 mg/L and Total Phenolics at 0.0011 BJ mg/L. These results exceed Class GA Standards, but remain below EWQVs. Remaining results are below EWQV's and GA Standards.
- During the fourth quarter MW-45A was bailed dry and recovered adequately to allow routine parameter sample collection. Fourth quarter results show Turbidity at 17.8 NTU, Iron at 2.63 mg/L, Sulfate at 572 mg/L and TDS at 1110 mg/L exceeding Class GA Standards while remaining below the EWQVs. Fourth quarter results show Manganese at 1.85 mg/L and Sodium at 84 mg/L, both exceeding EWQVs and Class GA Standards.

Exceeding EWQVs plus three standard deviations, but remaining below Class GA Standards are BOD at 14.6 mg/L, COD at 47.7 mg/L and TOC at 15.9 mg/L. These results are consistent with historic data.

- Downgradient well MW-47A exhibited fourth quarter results consistent with historic data showing Iron at 1.25 mg/L, Sodium at 52.6 mg/L, Sulfate at 703 mg/L and TDS at 1230 mg/L exceeding Class GA Standards, but below EWQVs. Manganese at 1.48 mg/L exceeds Class GA Standard and the EWQV. The remaining results are below EWQVs and Class GA Standards.

7.3 Surface Water and Sediment

Fourth quarter 2019 surface water and sediment monitoring was conducted between November 7 and November 11, 2019. Surface water samples were collected at DB-1 and DB-3. Surface water locations DB-2, East Perimeter Ditch and West Ditch each had insufficient water and were therefore not sampled. Sediment was not observed at monitoring locations and therefore sediment samples were not collected. Fourth quarter 2019 surface water results are below Class C Standards. Fourth quarter 2019 surface water results are present in Table 5, while current and historic results are shown in Table 9. Table 10 presents historic sediment results.

7.4 Groundwater Suppression System

Fourth quarter groundwater suppression system monitoring was conducted between November 4 and 5, 2019 and included routine parameter sampling and analysis at GSS-1, GSS-2 G/H, GSS-5 and baseline parameter sampling at GSS-2 E/F and GSS-3. GSS-4 exhibited no flow, as is often observed, and was therefore not sampled.

Fourth quarter sampling results are generally consistent with historic results and are discussed below.

- Fourth quarter 2019 GSS-1 results show Turbidity at 21.0 NTU and Iron at 0.79 mg/L exceeding Class GA Standards. The remaining results are below Class GA Standards.
- GSS-2 E/F fourth quarter results remain below Class GA Standards with the exception of Manganese at 0.796 mg/L and Acetone at 0.0051 BJ mg/L. Acetone, also detected in laboratory blank, is likely a laboratory artifact. Other Volatile Organic Compound (VOC) detections include 4-Methyl-2-pentanone at 0.00049 mg/L and Chloromethane at 0.0003 mg/L.
- GSS-2 G/H fourth quarter results show exceedances of Class GA Standards for Turbidity at 7.68 NTU, Iron at 2.43 mg/L, Manganese at 0.979 mg/L, Sodium at 23.3 mg/L, Sulfate at 494 mg/L, TDS at 1090 mg/L and Total Phenolics at 0.0013 BJ mg/L as typical for this location.
- GSS-3 fourth quarter results show Magnesium at 0.919 mg/L and Acetone at 0.0052 BJ mg/L, which are both above Class GA Standards. Acetone is likely a laboratory artifact. Remaining GSS-3 results are below Class GA Standards and consistent with historic data and ambient groundwater quality. Other VOC detections include 2-Butanone (MEK)

at 0.0018 mg/L, 4-Methyl-2-pentanone at 0.00046 mg/L and Chloromethane at 0.00033 mg/L.

- Fourth quarter 2019 GSS-5 sampling represents the third sampling of this groundwater suppression system. Fourth quarter results remain below Class GA Standards

  Fourth quarter 2019 groundwater suppression system analytical results are presented in Table 6 and Table 11 presents the current plus historic groundwater suppression system data.

7.5 Residential Sampling

Eight residential water supply locations were sampled for routine parameters as part of the fourth quarter 2019 monitoring event. Sampling locations are presented on Figure 2 and analytical results are tabulated in Table 12. This sampling included the regularly scheduled fourth quarter residential sampling as follows.

- Heath Gordon residence sample (H. Gordon House) was collected from a basement spigot.
- Shay residence water supply (Shay-Spring) was sampled at the spring located east of the house.
- The typical samplings at Elwin Gordon House and Gordon Camp were not conducted as directed by the resident.

Additional, non-typical residential water supply sampling was conducted during the fourth quarter 2019 as requested by residences as follows.

- Shay resident normally sampled at the spring was also sampled at a basement spigot that is plumbed post house filter system (Shay House Post Filter).
- Elwin Gordon Camp 2 (Gordon Camp 2) sample was collected from the kitchen sink cold water tap.
- Goodliff residence (Goodliff House) was sampled at the spring box located behind the house. This location requested to be included with scheduled future annual sampling.
- Goodliff trailer well (Goodliff Trailer Well) was sampled at an approximate 6 inch diameter well casing located behind a house trailer. The well is currently not used and water appeared stagnate.
- Hutchison house (Hutchison House) was collected from a basement spigot, reportedly prior to the house filtration system.
- Swineford residence sample (Swineford House) was collected from the bathroom cold water spigot.

Fourth quarter 2019 residential water supply results are within Class GA Standards, with the exceptions of certain Field Turbidity, Iron, Sodium and TDS results. These exceedances are generally consistent with ambient water quality and in certain locations may be influenced by

factors at the sampling location. The fourth quarter 2019 residential water supply Class GA exceedances are discussed below.

- Shay Spring shows Sodium at 23.4 mg/L, which is typical for this location and ambient water quality.
- Shay House Post Filter sample exhibits Sodium at 116 mg/L. This result may be influenced by the water filtration system.
- Gordon Camp 2 shows exceedances of Class GA Standards for Iron at 2.36 mg/L and Sodium at 22.3 mg/L. These results are consistent with ambient water quality.
- Goodliff Spring fourth quarter results shows Sodium at 32.5 mg/L, consistent with ambient water quality.
- Goodliff Trailer shows Turbidity at 15.2 NTU, Iron at 1.86 mg/L and Sodium at 39.8 mg/L. These results are generally typical of ambient water quality but are also likely influenced by the apparent stagnate water present in this currently non-operational well.
- Hutchison House sample results shows Iron at 1.41 mg/L, Sodium at 248 mg/L and TDS at 711 mg/L. This sampling location was reported by the resident to be prior to the house filtration system. Additional review of this sampling location should be conducted to further evaluate these data.

8.0 SURFACE IMPOUNDMENTS (NYSDEC SECTION 20)

This section includes a narrative pertaining to results greater than EWQVs and/or NYSDEC water quality standards, significant changes in water quality and a general discussion of results for monitoring wells that surround the leachate surface impoundments. Monitoring wells MW-40, MW-40A, MW-41A and MW-42A surround the impoundments and are designed to monitor groundwater in the immediate area. Fourth quarter 2019 surface impoundment monitoring well results are consistent with historic results with additional discussion provided below.

- Upgradient bedrock well MW-40 results are below EWQVs and Class GA Standards.
- Overburden upgradient well MW-40A results show Sodium at 58.2 mg/L exceeding the Class GA Standard but remaining below the EWQV. Sulfate at 1180 mg/L and TDS at 2000 mg/L exceed Class GA Standards and the EWQVs. Remaining results are within EWQVs and Class GA Standards.
- At downgradient overburden well MW-41A the Class GA Standard is exceeded, but not EWQV, by Total Phenolics at 0.0012 J mg/L. Sodium at 110 mg/L, Sulfate at 2330 mg/L and TDS at 3610 mg/L exceed EWQVs and Class GA Standards. The remaining results are below EWQVs and Class GA Standards. These results are consistent with historic data.
- Downgradient overburden well MW-42A results show Turbidity at 86.6 NTU exceeding Class GA Standard but within EWQV. Exceeding both EWQVs and Class GA Standards

are Iron at 5.61 mg/L, Sodium at 98.9 mg/L, Sulfate at 1950 mg/L and TDS at 3170 mg/L. Remaining results are below EWQVs and Class GA Standards.

9.0 DATA QUALITY ASSESSMENT (NYSDEC SECTION 18)

The fourth quarter 2019 sampling event included routine parameter sampling and analysis for groundwater, surface water and groundwater suppression systems. Samples were received by the laboratory in good condition within one day of sampling and within temperature requirements. Samples were generally analyzed within appropriate hold times and the laboratory reported no significant anomalies during analyses. Additional data quality control information is provided in the laboratory analytical reports located in Appendix B.

Duplicate Samples

A field duplicate sample was collected from monitoring well MW-34, labeled DUP1-1119 and analyzed by the laboratory for routine parameters. Results from MW-34 and the associated duplicate sample compare favorably indicating good sampling and analysis precision. Results are presented in Table 13.

Equipment Blank Sample

One field equipment blank sample was collected by pumping laboratory provided deionized water through the sampling pump and tubing. Sample EB1-1119 was collected from the bladder pump and tubing used to sample MW-19, MW-31, MW-40 and MW-47A. EB1-1119 was analyzed for routine parameters showing primarily non-detect results typical of deionized water. Equipment blank results are presented in Table 14.

Data Validation / Data Usability

Third party data validation was not required during the fourth quarter 2019 routine sampling event. Internal data validation was completed by ALS and is provided with the analytical reports included in Appendix B. The results presented in this report should be considered technically correct and usable.

Tables

Table 1

Current and Historic (Last 4 Samplings) Leachate Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	Primary Leachate Collection System (PLCS)				Leachate Ponds Secondary Collection System									Cell 1 A/B Secondary Leachate Collection				Cell 1 C/D Secondary Leachate Collection			
					North Pond (LP-1S)					South Pond (LP-2S)											
	2/8/2018	8/1/2018	2/6/2019	7/31/2019	2/8/2018	8/1/2018	2/6/2019	7/31/2019	8/13/2019	2/8/2018	8/1/2018	2/6/2019	7/31/2019	2/5/2018	8/1/2018	2/5/2019	7/31/2019	2/5/2018	2/5/2019	7/31/2019	8/1/2018
Field Parameters																					
Field pH (std. units)	8.15	7.59	7.91	7.6	6.87	7.06	7.03	7.1	6.75	7.12	7	7.52	6.97	6.75	6.97	6.81	6.83	6.73	6.8	6.8	6.92
ORP (mV)	47.1	151	15	-128.5	37.6	-80.7	136.1	-39.5	-19.2	32.4	39.4	105.4	75.2	36.7	70.1	112.4	120.8	-37.5	116.6	115.9	98.2
Specific Conductivity (us/cm)	18451	12193	16949	15190	964	948	890	992	984	757	825	792	917	929	793	830	906	1013	1096	1357	937
Temperature (deg. C)	4.1	23	9.4	28.1	7.3	22.1	7.2	18.4	19.9	7.7	19.9	7.9	20.2	26.5	27.3	22.5	28.6	28.8	23	28	29.4
Turbidity (NTU)	56	218	58.1	189	1.75	0.87	0.68	4.72	1.39	21.1	7.35	9.42	12.7	1.7	0.97	1.35	1.79	1.09	2.64	1.33	3.18
Inorganic Compounds																					
Aluminum	1.12	0.595	0.868	0.606	0.1 U	0.1 U	0.1 U	0.051 J	0.044 J	0.276	0.136	0.168	0.277	0.1 U	0.1 U	0.1 U	0.0328 J	0.1 U	0.1 U	0.0377 J	0.1 U
Antimony	0.01 J	0.0089 J	0.0106 J	0.0376 J	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
Arsenic	0.179	0.112	0.139	0.272	0.01 U	0.0089 J	0.0059 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0063 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	0.876	0.859	0.985	0.524	0.139	0.159	0.14	0.151	0.152	0.141	0.164	0.13	0.19	0.159	0.0666	0.0583	0.0598	0.066	0.0589	0.0884	0.0226
Beryllium	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Boron	25.2	16.8	22.6	15.9	0.2 U	0.0939 J	0.0665 J	0.0594 J	0.0649 J	0.208	0.23	0.144 J	0.131 J	0.2 U	0.0517 J	0.0286 J	0.0225 J	0.2 U	0.0774 J	0.0837 J	0.0943 J
Cadmium	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium	112	193	132	59.2	162	159	162	158	150	114	127	127	147	160	135	156	157	179	186	228	152
Chromium	0.361	0.243	0.358	0.249	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0628	0.0099 J	0.0067 J	0.0103	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chromium, hexavalent	0.2 U	0.1 U	0.2 U,*	0.5 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U,*	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U,*	0.01 U	0.01 U	0.01 U,*	0.01 U	0.01 U
Cobalt	0.0415 J	0.0312 J	0.0377 J	0.0301 J	0.05 U	0.05 U	0.05 U	0.0014 J	0.0014 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Copper	0.06	0.0448	0.0423	0.0183 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0119 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0077 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Iron	4.17	8.6	6.34	3.55	0.729	1.14	0.698	0.764	0.843	0.813	0.809	0.951	0.773	0.539	0.133	0.173	0.238	0.333	0.181	0.0736 J	0.257
Lead	0.0105 J	0.0105 J	0.0154 J	0.0044 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Magnesium	124	89.8	125	75.5	54.1	49.4	52.8	51.1	49.7	34.3	36.2	36.5	40.7	36.3	35	34.6	35.2	49.8	54.6	70.6	49.8
Manganese	0.362	3.99	1.01	0.226	1.75	1.7	1.81	1.9	2.2	0.0654	0.0363	0.0224	0.0665	1.22	0.0174	0.0769	0.0354	1.18	0.0174	0.0062 J	0.0122
Mercury	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	0.302	0.19	0.227	0.15	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.0878	0.015 J	0.04 U	0.0062 J	0.04 U	0.04 U	0.04 U	0.04 U	0.0093 J	0.04 U	0.04 U	0.04 U
Potassium	642	403	534	406	3.49	4.3	3.19	3.5	3.74	5.33	5.05	3.92	4.59	2.9	3.01	2.64	2.72	5.04	4.36	4.38	4.76
Selenium	0.01 U	0.01 U	0.0056 J	0.0058 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Silver	0.01 U	0.01 U	0.0009 J	0.01 U	0.01 U	0.01 U	0.0006 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0007 J	0.01 U	0.01 U
Sodium	2590	1560	1910	1720	17.2	16.9	15.9	16	15.7	30	24.4	18.6	17.1	10.4	10.2	9.23	11.1	17.9	16.3	20.1	17.1
Thallium	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0087 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0085 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Tin	0.0806 J	0.0541 J	0.096 J	0.0786 J	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vanadium	0.0594	0.0412 J	0.0586	0.0349 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Zinc	0.192	0.104	0.17	0.1	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.017 J	0.0172 J	0.0104 J	0.0158 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
PCB's																					
Aroclor-1016	0.00094 U	0.001 U	0.00094 U	0.00097 U	0.00094 U	0.001 U	0.00094 U	0.00093 U		0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.00094 U	0.00093 U	0.001 U
Aroclor-1221	0.0019 U	0.002 U	0.0019 U	0.0019 U	0.0019 U	0.002 U	0.0019 U	0.0019 U		0.0019 U	0.002 U	0.0019 U	0.0019 U	0.0019 U	0.002 U	0.0019 U	0.0019 U	0.0019 U	0.0019 U	0.0019 U	0.002 U
Aroclor-1232	0.00094 U	0.001 U	0.00094 U	0.00097 U	0.00094 U	0.001 U	0.00094 U	0.00093 U		0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.00094 U	0.00093 U	0.001 U
Aroclor-1242	0.00094 U	0.001 U	0.00094 U	0.00097 U	0.00094 U	0.001 U	0.00094 U	0.00093 U		0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.00094 U	0.00093 U	0.001 U
Aroclor-1248	0.00094 U	0.001 U	0.00094 U	0.00097 U	0.00094 U	0.001 U	0.00094 U	0.00093 U		0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.00094 U	0.00093 U	0.001 U
Aroclor-1254	0.00094 U	0.001 U	0.00094 U	0.00097 U	0.00094 U	0.001 U	0.00094 U	0.00093 U		0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.00094 U	0.00093 U	0.001 U
Aroclor-1260	0.00094 U	0.001 U	0.00094 U	0.00097 U	0.00094 U	0.001 U	0.00094 U	0.00093 U		0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.00094 U	0.00093 U	0.001 U
Pesticides & Herbicides																					
4,4'-DDD	0.000047 U	0.00005 U	0.000047 U	0.000049 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U		0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U
4,4'-DDE	0.000047 U	0.00005 U	0.000047 U	0.000049 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U		0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U
4,4'-DDT	0.000047 U	0.00005 U	0.000047 U	0.000049 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U		0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U
Aldrin	0.000047 U	0.00005 U	0.000047 U	0.000049 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U		0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U
alpha-BHC	0.000047 U	0.00005 U	0.000047 U	0.000049 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U		0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U
alpha-Chlordane	0.000047 U	0.00005 U	0.000047 U	0.000049 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U		0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U
beta-BHC	0.000047 U	0.00005 U	0.000047 U	0.000049 U	0.000047 U	0.000035 J	0.000047 U	0.000047 U		0.000021 J	0.00005 U	0.000047 U	0.000047 U	0.00011	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.0001

Please see page 10 for notes

Current and Historic (Last 4 Samplings) Leachate Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	Primary Leachate Collection System (PLCS)				Leachate Ponds Secondary Collection System									Cell 1 A/B Secondary Leachate Collection				Cell 1 C/D Secondary Leachate Collection			
					North Pond (LP-1S)					South Pond (LP-2S)											
	2/8/2018	8/1/2018	2/6/2019	7/31/2019	2/8/2018	8/1/2018	2/6/2019	7/31/2019	8/13/2019	2/8/2018	8/1/2018	2/6/2019	7/31/2019	2/5/2018	8/1/2018	2/5/2019	7/31/2019	2/5/2018	2/5/2019	7/31/2019	8/1/2018
Pesticide & Herbicides (con't)																					
Chlorobenzilate	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
delta-BHC	0.000047 U	0.00005 U	0.000047 U	0.000049 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U		0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U
Dieldrin	0.000047 U	0.00005 U	0.000047 U	0.000049 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U		0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U
Dinoseb	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0012
Endosulfan I	0.000047 U	0.00005 U	0.000047 U	0.000049 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U		0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000027 J	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U
Endosulfan II	0.000047 U	0.00005 U	0.000047 U	0.000049 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U		0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U
Endosulfan sulfate	0.000047 U	0.00005 U	0.000047 U	0.000049 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U		0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U
Endrin	0.000047 U	0.00005 U	0.000047 U	0.000049 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U		0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U
Endrin aldehyde	0.000047 U	0.00005 U	0.000047 U	0.000049 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U		0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U
gamma-BHC (Lindane)	0.000047 U	0.00005 U	0.000047 U	0.000049 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U		0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U
gamma-Chlordane	0.000047 U	0.00005 U	0.000047 U	0.000049 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U		0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U
Heptachlor	0.000047 U	0.00005 U	0.000047 U	0.000049 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U		0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U
Heptachlor epoxide	0.000047 U	0.00005 U	0.000047 U	0.000049 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U		0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U
Methoxychlor	0.000047 U	0.00005 U	0.000047 U	0.000049 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U		0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U
Methyl parathion	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Parathion	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Toxaphene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
2,4,5-T	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
2,4,5-TP	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
2,4-D	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Semi Volatile Organic Compounds																					
1,2,4,5-Tetrachlorobenzene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
1,3,5-Trinitrobenzene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
1,3-Dinitrobenzene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
1,4-Naphthoquinone	0.14 U	0.05 U,*	0.094 U	0.23 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U	0.047 U	0.049 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.05 U
1,4-Phenylenediamine	0.14 UX	0.05 UX,*	0.094 UX	0.23 UX	0.047 UX	0.05 UX	0.047 UX	0.047 UX		0.047 UX	0.05 UX	0.047 UX	0.049 UX	0.047 UX	0.05 UX	0.047 UX	0.047 UX	0.047 UX	0.047 UX	0.047 UX	0.05 UX
1-Naphthylamine	0.14 U	0.05 U,*	0.094 U	0.23 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U	0.047 U	0.049 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.05 U
2,3,4,6-Tetrachlorophenol	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
2,4,5-Trichlorophenol	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
2,4,6-Trichlorophenol	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
2,4-Dichlorophenol	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
2,4-Dimethylphenol	0.006 J	0.0086 J,*	0.0085 J	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
2,4-Dinitrophenol	0.14 U	0.05 U,*	0.094 U	0.23 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U	0.047 U	0.049 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.05 U
2,4-Dinitrotoluene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
2,6-Dichlorophenol	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
2,6-Dinitrotoluene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
2-Acetylaminofluorene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
2-Chloronaphthalene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
2-Chlorophenol	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
2-Methyl-5-nitroaniline	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
2-Methylnaphthalene	0.028 U	0.0045 J,*	0.0023 J	0.0071 J	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
2-Methylphenol	0.015 J	0.015 *	0.018 J	0.081	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
2-Naphthylamine	0.14 U	0.0022 J,*	0.094 U	0.23 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U	0.047 U	0.049 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.05 U
2-Nitroaniline	0.14 U	0.05 U,*	0.094 U	0.23 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U	0.047 U	0.049 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.05 U
2-Nitrophenol	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
3,3-Dichlorobenzidine	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
3,3-Dimethylbenzidine	0.14 U	0.05 U,*	0.094 U	0.23 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U	0.047 U	0.049 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.05 U
3/4-Methylphenol	0.047	0.12 *	0.23	0.61 D	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
3-Methylcholanthrene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
3-Nitroaniline	0.14 U	0.05 U,*	0.094 U	0.23 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U	0.047 U	0.049 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.05 U
4,6-Dinitro-2-methylphenol	0.14 U	0.05 U,*	0.094 U	0.23 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U	0.047 U	0.049 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.05 U
4-Aminobiphenyl	0.14 U	0.05 U,*	0.094 U	0.23 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U	0.047 U	0.049 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.05 U
4-Bromophenyl-phenylether	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
4-Chloro-3-methylphenol	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U

Please see page 10 for notes

Current and Historic (Last 4 Samplings) Leachate Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	Primary Leachate Collection System (PLCS)				Leachate Ponds Secondary Collection System									Cell 1 A/B Secondary Leachate Collection				Cell 1 C/D Secondary Leachate Collection			
					North Pond (LP-1S)					South Pond (LP-2S)											
	2/8/2018	8/1/2018	2/6/2019	7/31/2019	2/8/2018	8/1/2018	2/6/2019	7/31/2019	8/13/2019	2/8/2018	8/1/2018	2/6/2019	7/31/2019	2/5/2018	8/1/2018	2/5/2019	7/31/2019	2/5/2018	2/5/2019	7/31/2019	8/1/2018
Semi Volatile Organic Compounds (con't)																					
4-Chloroaniline	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
4-Chlorophenyl-phenylether	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
4-Dimethylaminoazobenzene	0.028 U				0.0094 U					0.0094 U				0.0094 U				0.0094 U			
4-Nitroaniline	0.14 U	0.05 U,*	0.094 U	0.23 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U	0.047 U	0.049 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.05 U
4-Nitrophenol	0.14 U	0.05 U,*	0.094 U	0.23 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U	0.047 U	0.049 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.05 U
7,12-Dimethylbenz(a)anthracene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Acenaphthene	0.028 U	0.0037 J,*	0.019 U	0.01 J	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Acenaphthylene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Acetophenone	0.011 J	0.011 *	0.015 J	0.16	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Anthracene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Benzo(a)anthracene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Benzo(a)pyrene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Benzo(b)fluoranthene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Benzo(g,h,i)perylene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Benzo(k)fluoranthene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Benzyl alcohol	0.028 U	0.01 U,*	0.019 U	0.015 J	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Bis(1-chloroisopropyl) Ether	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
bis(2-Chloroethoxy) methane	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
bis(2-Chloroethyl) ether	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
bis(2-Ethylhexyl) phthalate	0.016 J	0.0031 J,*	0.02 U	0.049 U	0.0094 U	0.01 U	0.0097 U	0.0097 U		0.0094 U	0.01 U	0.0097 U	0.0097 U	0.0094 U	0.01 U	0.0097 U	0.0097 U	0.0094 U	0.0097 U	0.0097 U	0.01 U
Butylbenzylphthalate	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Chrysene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Diallate	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Dibenzo(a,h)anthracene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Dibenzofuran	0.028 U	0.0027 J,*	0.019 U	0.0084 J	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Diethylphthalate	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Dimethoate	0.14 U	0.05 U,*	0.094 U	0.23 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U	0.047 U	0.049 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.05 U
Dimethylphthalate	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Di-n-butylphthalate	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Di-n-octylphthalate	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Diphenylamine	0.028 UX	0.01 UX,*	0.019 U	0.047 U	0.0094 UX	0.01 UX	0.0094 U	0.0093 U		0.0094 UX	0.01 UX	0.0094 U	0.0097 U	0.0094 UX	0.01 UX	0.0094 U	0.0093 U	0.0094 UX	0.0094 U	0.0093 U	0.01 UX
Disulfoton	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Ethyl methanesulfonate	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Famphur	0.00094 U	0.001 U	0.00094 U	0.00097 U	0.00094 U	0.001 U	0.00094 U	0.00093 U		0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.00094 U	0.00093 U	0.001 U
Fluoranthene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Fluorene	0.028 U	0.0032 J,*	0.019 U	0.011 J	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Hexachlorobenzene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Hexachlorocyclopentadiene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Hexachloroethane	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Hexachloropropene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Indeno(1,2,3-cd)pyrene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Isodrin	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Isophorone	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Isosafrole	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Kepone	0.0047 U	0.005 U	0.0047 U	0.0049 U	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0047 U	0.005 U	0.0047 U	0.0047 U	0.0047 U	0.005 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.005 U
Methapyrilene	0.14 U	0.05 U,*	0.094 U	0.23 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U	0.047 U	0.049 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.05 U
Methyl methanesulfonate	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Nitrobenzene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
N-Nitrosodibutylamine	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
N-Nitrosodiethylamine	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
N-Nitrosodimethylamine	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
N-Nitrosodi-n-propylamine	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
N-Nitrosodiphenylamine/Diphenylamine	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
N-Nitrosomethylethylamine	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
N-Nitrosopiperidine	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U

Please see page 10 for notes

Current and Historic (Last 4 Samplings) Leachate Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	Primary Leachate Collection System (PLCS)				Leachate Ponds Secondary Collection System									Cell 1 A/B Secondary Leachate Collection				Cell 1 C/D Secondary Leachate Collection			
					North Pond (LP-1S)					South Pond (LP-2S)											
	2/8/2018	8/1/2018	2/6/2019	7/31/2019	2/8/2018	8/1/2018	2/6/2019	7/31/2019	8/13/2019	2/8/2018	8/1/2018	2/6/2019	7/31/2019	2/5/2018	8/1/2018	2/5/2019	7/31/2019	2/5/2018	2/5/2019	7/31/2019	8/1/2018
Semi Volatile Organic Compounds (con't)																					
N-Nitrosopyrolidine	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
o,o,o-Triethyl phosphorothioate	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
o-Toluidine	0.028 U	0.027 *	0.024	0.097	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
p-(Dimethylamino)azobenzene		0.01 U,*	0.019 U	0.047 U		0.01 U	0.0094 U	0.0093 U			0.01 U	0.0094 U	0.0097 U		0.01 U	0.0094 U	0.0093 U		0.0094 U	0.0093 U	0.01 U
Pentachlorobenzene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Pentachloronitrobenzene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Pentachlorophenol	0.14 U	0.05 U,*	0.094 U	0.23 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U	0.047 U	0.049 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.05 U
Phenacetin	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Phenanthrene	0.0036 J	0.003 J,*	0.0039 J	0.015 J	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Phorate	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Pronamide	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Pyrene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Safrole	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Thionazin	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Volatile Organic Compounds																					
1,1,1,2-Tetrachloroethane	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1,1-Trichloroethane	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1,2,2-Tetrachloroethane	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1,2-Trichloroethane	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethane	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.00023 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethene	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloropropene	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2,3-Trichloropropane	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dibromo-3-chloropropane	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dibromoethane	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichlorobenzene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.005 U	0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
1,2-Dichloroethane	0.13 U	0.01 J	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0002 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloropropane	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,3-Dichlorobenzene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
1,3-Dichloropropane	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,4-Dichlorobenzene	0.028 U	0.0022 J,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.005 U	0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
2,2-Dichloropropane	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2-Butanone (MEK)	0.39	1.3	1.8 D	14 D	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Chloro-1,3-butadiene	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2-Hexanone	0.25 U	0.25 U	0.017 J	0.064 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone	0.018 J	0.041 J	0.17 J	0.31 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Acetone	0.41	0.9	2.8	11 D	0.0019 J	0.01 U	0.01 U	0.0033 BJ	0.0043 BJ	0.01 U	0.0026 J	0.01 U	0.003 BJ	0.0068 J	0.01 U	0.01 U	0.0047 J	0.01 U	0.01 U	0.003 J	0.01 U
Acetonitrile	2.5 U	2.5 U	2.5 U	0.27 J	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Acrolein	2.5 U	2.5 U	2.5 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Acrylonitrile	2.5 U	2.5 U	2.5 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Allyl chloride	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Benzene	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0002 J	0.005 U	0.005 U	0.005 U	0.00027 J	0.005 U	0.005 U	0.005 U
Bromochloromethane	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromodichloromethane	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromoform	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromomethane	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon disulfide	0.25 U	0.25 U	0.25 U	0.5 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Carbon tetrachloride	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chlorobenzene	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloroethane	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloroform	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloromethane	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.00033 BJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.00035 J	0.005 U	0.00049 BJ	0.005 U	0.00028 J	0.0004 BJ	0.00029 J
cis-1,2-Dichloroethene	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
cis-1,3-Dichloropropene	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U

Please see page 10 for notes

Current and Historic (Last 4 Samplings) Leachate Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	Primary Leachate Collection System (PLCS)				Leachate Ponds Secondary Collection System									Cell 1 A/B Secondary Leachate Collection				Cell 1 C/D Secondary Leachate Collection			
					North Pond (LP-1S)					South Pond (LP-2S)											
	2/8/2018	8/1/2018	2/6/2019	7/31/2019	2/8/2018	8/1/2018	2/6/2019	7/31/2019	8/13/2019	2/8/2018	8/1/2018	2/6/2019	7/31/2019	2/5/2018	8/1/2018	2/5/2019	7/31/2019	2/5/2018	2/5/2019	7/31/2019	8/1/2018
Volatile Organic Compounds (con't)																					
Dibromochloromethane	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Dibromomethane	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Dichlorodifluoromethane	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Dichloromethane (Methylene chloride)	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethyl benzene	0.13 U	0.0062 J	0.0079 J	0.012 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethyl methacrylate	0.25 U	0.25 U	0.25 U	0.5 U	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iodomethane	0.25 U	0.25 U	0.25 U	0.5 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0017 BJ	0.01 U	0.01 U	0.0016 BJ	0.01 U
Isobutyl alcohol	2.5 U	2.5 U	2.5 U	2.1 J	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
m&p-Xylene	0.13 U	0.014 J	0.018 J	0.022 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methacrylonitrile	0.5 U	0.5 U	0.5 U	1 U	0.02 U	0.02 U	0.02 U	0.02 U		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Methyl methacrylate	0.25 U	0.25 U	0.25 U	0.5 U	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
o-Xylene	0.0054 J	0.0067 J	0.0096 J	0.013 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Phenol	0.01 J	0.022 *	0.043	0.38	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Propionitrile	2.5 U	2.5 U	2.5 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Styrene	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Toluene	0.0064 J	0.018 J	0.042 J	0.024 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
trans-1,2-Dichloroethene	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
trans-1,3-Dichloropropene	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
trans-1,4-Dichloro-2-butene	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethene	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Trichlorofluoromethane	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Vinyl acetate	0.25 U	0.25 U	0.25 U	0.5 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vinyl chloride	0.13 U	0.13 U	0.13 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2,4-Trichlorobenzene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Hexachlorobutadiene	0.028 U	0.01 U,*	0.019 U	0.047 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Naphthalene	0.01 J	0.014 *	0.0079 J	0.021 J	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U	0.0094 U	0.0097 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.0094 U	0.0093 U	0.01 U
Wet Chemistry																					
Alkalinity	5950	3870	5730	4720	404	559	384	410	396 *	328	449	376	441	517	711	473	498	504	392	395	644
Ammonia Nitrogen	1130	702	1890	1160	0.214	0.195	0.059	0.139	0.177	0.05 U	0.05 U	0.05 U	0.018 J	0.05 U	0.011 J	0.05 U	0.05 U	0.077	0.05 U	0.05 U	0.05 U
Biochemical Oxygen Demand	193	448	449	573	2 U	2 U	3	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromide	21.7	14.3	17.8	14.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chemical Oxygen Demand	2890	2080	3280	2820	13.1	5.8	15.9	6	11.5	11.8	5 U	12.4	5 U	13.1	5 U	7.5	5 U	7.5	9.1	5 U	5 U
Chloride	3620	2120	3210	2610	14.4	17	17	16.2	15.4	38.5	33.6	23.7	18.6	1.4 J	1.6 J	2.9	1.1 J	2.2	3	3.5	2.7
Color (True) (C.U.)	3600	5250	6000	3500	15	37	12	20	30	10	18	10	18	16	13	10	13	14	5	10	14
Cyanide	0.03 J	0.1 U	0.1 U	0.1 U	0.002 J	0.01 U	0.01 U	0.005 U	0.0046 J	0.002 J	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.005 U	0.01 U
Hardness	790	851	845	459	627	599	622	605	579	425	467	467	534	548	482	531	538	651	690	859	586
Nitrate Nitrogen	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2.1	1.8	1.1	0.8 J	1 U	0.4 J	1 U	1 U	0.6 J	0.5 J	0.5 J	0.9 J
pH of Color Analysis	7.99	8.01 *	8.13 *	7.92 *	7.5	7.86 *	7.61 *	7.72 *	7.32	7.71	7.79 *	7.87 *	7.58 *	7.37 *	7.72 *	7.38	7.49 *	7.12 *	7.35	7.79 *	7.78 *
Phosphorus		4.76	5.91	5.9																	
Sulfate	89.8	1.6 J	14	93	172	177	150	144	135	48.3	55.8	55.6	51.4	12.3	28.6	18	24.5	117	287	452	166
Sulfide	5 U	5 U	5	4 U	0.98 U	0.22 J	0.17 J	0.96 U		0.97 U	0.38 J	0.34 J	0.97 U	0.98 U	2.56	0.24 J	0.97 U	0.96 U	0.2 J	0.33 J	1.26
Total Dissolved Solids	8800	5470	8680	6980 *	680	702	673	693 *	672	477	529	519	593 *	527	496	523	574 *	662	884	1160 *	660
Total Kjeldahl Nitrogen	1180	785	1240	1130	0.5	0.67 B	0.44	0.35	0.58	0.3	0.35 B	0.3	0.24	0.11 J	0.17 BJ	0.09 J	0.12 J	0.09 J	0.1 J	0.2 U	0.17 BJ
Total Organic Carbon (TOC)	953	876	930	830	4.6	4.4	4.1	3.4	3.9	3.2	2.6	2.5	2.4	5	2.4	2.4	2.1	3.1	3.4	2.8	2.4
Total Phenolics	2.14	1.42	0.47	1.84	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0038 J	0.0026 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Total Suspended Solids	49.7	53	17.1	9.7	1.3	2.5	1.1	1.7		11.6	6.1	8.3	14.3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.1

Please see page 10 for notes

Current and Historic (Last 4 Samplings) Leachate Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	Cell 2 E/F Secondary Leachate Collection				Cell 2 G/H Secondary Lechate Collection				Cell 3 Secondary Leachate Collection				Cell 4 Secondary Leachate Collection					Cell 5 Secondary Leachate Collection				
	2/5/2018	8/1/2018	2/5/2019	7/31/2019	2/1/2018	8/1/2018	2/4/2019	7/31/2019	2/6/2018	8/1/2018	2/6/2019	7/31/2019	2/6/2018	8/1/2018	2/4/2019	7/31/2019	11/19/2018	2/6/2018	8/1/2018	1/16/2019	2/4/2019	7/31/2019
Field Parameters																						
Field pH (std. units)	7.53	7.52	7.41	7.3	6.65	6.71	6.61	6.6	7.1	6.88	6.81	6.91	6.95	6.94	6.92	6.88	6.97	7.5	6.98	6.92	6.97	6.93
ORP (mV)	35.3	109.1	-127.1	-92.4	-98.7	100.7	-11.8	-32.4	-35.2	-67.6	-75.4	-57.2	-67.9	-94.4	-60.7	-69.4	-100.4	-97.4	29.5	-54	-40.9	-46.5
Specific Conductivity (us/cm)	12751	11547	13215	10296	2801	1854	1729	1945	5089	2645	1586	1687	1010	1440	1311	1260	1356	1550	2021	1489	1466	1275
Temperature (deg. C)	16.5	28.4	26.8	28.5	28.9	29.8	20	28.5	25.3	26.6	24.4	26.8	21.7	26.7	21.1	21.2	11.8	8.6	20.4	15.9	16.9	18.7
Turbidity (NTU)	10.2	23.1	23.1	14.6	7.02	2.26	2.68	1.16	13.7	13.8	3.45	9.15	3.9	20.6	2.3	2.63	1.39	2.62	4.42	22.6	5.76	16.3
Inorganic Compounds																						
Aluminum	0.207	0.601	0.645	0.412	0.108	0.1 U	0.1 U	0.0433 J	0.243	0.411	0.1 U	0.0969 J	0.108	0.0792 J	0.1 U	0.0506 J	0.1 U	0.1 U	0.0704 J	0.12	0.1 U	0.0822 J
Antimony	0.06 U	0.0079 J	0.006 J	0.006 J	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
Arsenic	0.0682	0.0517	0.146	0.105	0.0468	0.01 U	0.01 U	0.01 U	0.0563	0.0262	0.0121	0.023	0.0113	0.01 U	0.01 U	0.01 U	0.01 U	0.0082 J	0.01 U	0.01 U	0.0069 J	0.0057 J
Barium	0.286	0.205	0.459	0.303	0.125	0.0615	0.0637	0.0842	0.446	0.267	0.212	0.215	0.213	0.332	0.378	0.339	0.287	0.0607	0.0587	0.05	0.0488	0.0837
Beryllium	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Boron	14.8	15	16.2	12.4	1.06	0.401	0.254	0.218	6.59	2.69	0.798	0.884	0.0904 J	0.255	0.238	0.188 J	0.205	0.2 U	0.193 J	0.07 J	0.0721 J	0.0749 J
Cadmium	0.0028 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium	269	193	191	154	335	260	243	283	170	147	151	141	159	198	184	179	192 J	186	365	224	229	210
Chromium	0.178	0.164	0.304	0.169	0.01 U	0.01 U	0.01 U	0.01 U	0.0667	0.0209	0.0028 J	0.0032 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chromium, hexavalent	0.2 U	0.1 U	0.5 U,*	0.01 U	0.06 U	0.01 U	0.05 U	0.05 U	0.1 U	0.01 U	0.05 U,*	0.01 U	0.05 U	0.01 U	0.05 U	0.1 U	0.05 U	0.01 U	0.01 U	0.01 U,*	0.01 U	0.05 U
Cobalt	0.113	0.132	0.0747	0.0475 J	0.05 U	0.05 U	0.05 U	0.05 U	0.0105 J	0.0035 J	0.05 U	0.0011 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.0037 J	0.004 J	0.0049 J	0.0024 J
Copper	0.743	9.83	0.199	0.182	0.0227	0.0368	0.0066 J	0.02 U	0.02 U	0.02 U	0.02 U	0.0094 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Iron	3.14	2.92	3.52	2.58	14.5	0.161	9.2	10.9	5.3	5.13	5.51	5.84	4.61	2.12	7.74	7.32	3.74	2.7	0.762	6.07	3.36	7.18
Lead	0.108	0.0164 J	0.0313 J	0.0217 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Magnesium	90	87.6	85.9	78.3	104	77.4	71.9	85.7	73.4	50.3	43.8	47.5	36.6	44.7	41.2	42.6	55.2	79.7	150	89.9	92.2	51.6
Manganese	2.08	1.48	1.96	1.53	3.74	2.41	3.12	2.84	1.83	1.66	1.97	1.57	2.77	2.84	2.35	2.25	2.65	4.62	3	5.3	5.67	5.59
Mercury	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	0.39	0.456	0.384	0.341	0.04 U	0.04 U	0.04 U	0.04 U	0.0983	0.0242 J	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.008 J	0.04 U	0.04 U
Potassium	470	404	421	294	32.2 E	13	9.57	8.4	126	61.8	27.6	32.1	5.51	8.56	8.76	8.38	8.25	3.69	7.56	6.2	6.42	5.53
Selenium	0.01 U	0.01 U	0.01 U	0.0064 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Silver	0.01 U	0.0016 J	0.001 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0006 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	1950	1820	1760	1460	208	124	104	90.1	539	251	96.3	105	22	90.4	77.6	65.1	76.2	108	77.5	29	29.4	21
Thallium	0.0074 J	0.01 U	0.01 U	0.01 U	0.0109	0.0082 J	0.0104	0.01 U	0.01 U	0.01 U	0.01 U	0.0086 J	0.01 U	0.01 U	0.0068 J	0.01 U	0.01 U	0.0067 J	0.0067 J	0.01 U	0.0088 J	0.01 U
Tin	0.0547 J	0.0481 J	0.263 J	0.125 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U
Vanadium	0.0189 J	0.017 J	0.0732	0.0574	0.05 U	0.05 U	0.05 U	0.05 U	0.0147 J	0.0056 J	0.05 U	0.0018 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Zinc	0.459	0.122	0.0706	0.0475	0.0075 J	0.0235	0.0223	0.02 U	0.0257	0.0265	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.01 J	0.0125 J	0.02 U	0.02 U	0.0137 J
PCB's																						
Aroclor-1016	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00096 U		0.00094 U	0.001 U		0.00094 U	0.00093 U
Aroclor-1221	0.0019 U	0.002 U	0.0019 U	0.0019 U	0.0019 U	0.002 U	0.0019 U	0.0019 U	0.0019 U	0.002 U	0.0019 U	0.0019 U	0.0019 U	0.002 U	0.0019 U	0.0019 U		0.0019 U	0.002 U		0.0019 U	0.0019 U
Aroclor-1232	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00096 U		0.00094 U	0.001 U		0.00094 U	0.00093 U
Aroclor-1242	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00096 U		0.00094 U	0.001 U		0.00094 U	0.00093 U
Aroclor-1248	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00096 U		0.00094 U	0.001 U		0.00094 U	0.00093 U
Aroclor-1254	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00096 U		0.00094 U	0.001 U		0.00094 U	0.00093 U
Aroclor-1260	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00096 U		0.00094 U	0.001 U		0.00094 U	0.00093 U
Pesticides & Herbicides																						
4,4'-DDD	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000048 U		0.000047 U	0.00005 U		0.000047 U	0.000047 U
4,4'-DDE	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000048 U		0.000047 U	0.00005 U		0.000047 U	0.000047 U
4,4'-DDT	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000048 U		0.000047 U	0.00005 U		0.000047 U	0.000047 U
Aldrin	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000048 U		0.000047 U	0.00005 U		0.000047 U	0.000047 U
alpha-BHC	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000048 U		0.000047 U	0.00005 U		0.000047 U	0.000047 U
alpha-Chlordane	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000048 U		0.000047 U	0.00005 U		0.000047 U	0.000047 U
beta-BHC	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000048 U		0.000047 U	0.00005 U		0.000047 U	0.000047 U

Please see page 10 for notes

Current and Historic (Last 4 Samplings) Leachate Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	Cell 2 E/F Secondary Leachate Collection				Cell 2 G/H Secondary Lechate Collection				Cell 3 Secondary Leachate Collection				Cell 4 Secondary Leachate Collection					Cell 5 Secondary Leachate Collection				
	2/5/2018	8/1/2018	2/5/2019	7/31/2019	2/1/2018	8/1/2018	2/4/2019	7/31/2019	2/6/2018	8/1/2018	2/6/2019	7/31/2019	2/6/2018	8/1/2018	2/4/2019	7/31/2019	11/19/2018	2/6/2018	8/1/2018	1/16/2019	2/4/2019	7/31/2019
Pesticide & Herbicides (con't)																						
Chlorobenzilate	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
delta-BHC	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000048 U		0.000047 U	0.00005 U		0.000047 U	0.000047 U
Dieldrin	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000048 U		0.000047 U	0.00005 U		0.000047 U	0.000047 U
Dinoseb	0.0005 U	0.0014 P	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U		0.0005 U	0.0005 U		0.0005 U	0.0005 U
Endosulfan I	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000048 U		0.000047 U	0.00005 U		0.000047 U	0.000047 U
Endosulfan II	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000048 U		0.000047 U	0.00005 U		0.000047 U	0.000047 U
Endosulfan sulfate	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000048 U		0.000047 U	0.00005 U		0.000047 U	0.000047 U
Endrin	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000048 U		0.000047 U	0.00005 U		0.000047 U	0.000047 U
Endrin aldehyde	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000048 U		0.000047 U	0.00005 U		0.000047 U	0.000047 U
gamma-BHC (Lindane)	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000048 U		0.000047 U	0.00005 U		0.000047 U	0.000047 U
gamma-Chlordane	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000048 U		0.000047 U	0.00005 U		0.000047 U	0.000047 U
Heptachlor	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000048 U		0.000047 U	0.00005 U		0.000047 U	0.000047 U
Heptachlor epoxide	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000048 U		0.000047 U	0.00005 U		0.000047 U	0.000047 U
Methoxychlor	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000047 U	0.000047 U	0.00005 U	0.000047 U	0.000048 U		0.000047 U	0.00005 U		0.000047 U	0.000047 U
Methyl parathion	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Parathion	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Toxaphene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U		0.0005 U	0.0005 U		0.0005 U	0.0005 U
2,4,5-T	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U		0.0005 U	0.0005 U		0.0005 U	0.0005 U
2,4,5-TP	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0003 J	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U		0.0005 U	0.0005 U		0.0005 U	0.0005 U
2,4-D	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U		0.00092	0.00067		0.0005 U	0.0005 U
Semi Volatile Organic Compounds																						
1,2,4,5-Tetrachlorobenzene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
1,3,5-Trinitrobenzene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
1,3-Dinitrobenzene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
1,4-Naphthoquinone	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U		0.047 U	0.047 U
1,4-Phenylenediamine	0.047 UX	0.05 UX	0.047 UX	0.047 UX	0.047 UX	0.05 UX	0.047 UX	0.047 UX	0.047 UX	0.05 UX	0.047 UX	0.047 UX	0.047 UX	0.05 UX	0.047 UX	0.047 UX		0.047 UX	0.05 UX		0.047 UX	0.047 UX
1-Naphthylamine	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U		0.047 U	0.047 U
2,3,4,6-Tetrachlorophenol	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
2,4,5-Trichlorophenol	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
2,4,6-Trichlorophenol	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
2,4-Dichlorophenol	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
2,4-Dimethylphenol	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0015 J	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
2,4-Dinitrophenol	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U		0.047 U	0.047 U
2,4-Dinitrotoluene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
2,6-Dichlorophenol	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
2,6-Dinitrotoluene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
2-Acetylaminofluorene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
2-Chloronaphthalene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
2-Chlorophenol	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
2-Methyl-5-nitroaniline	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
2-Methylnaphthalene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
2-Methylphenol	0.0094 U	0.01 U	0.001 J	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
2-Naphthylamine	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U		0.047 U	0.047 U
2-Nitroaniline	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U		0.047 U	0.047 U
2-Nitrophenol	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
3,3-Dichlorobenzidine	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
3,3-Dimethylbenzidine	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U		0.047 U	0.047 U
3/4-Methylphenol	0.0094 U	0.01 U	0.0014 J	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.13	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
3-Methylcholanthrene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
3-Nitroaniline	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U		0.047 U	0.047 U
4,6-Dinitro-2-methylphenol	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U		0.047 U	0.047 U
4-Aminobiphenyl	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U		0.047 U	0.047 U
4-Bromophenyl-phenylether	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
4-Chloro-3-methylphenol	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U

Please see page 10 for notes

Current and Historic (Last 4 Samplings) Leachate Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	Cell 2 E/F Secondary Leachate Collection				Cell 2 G/H Secondary Lechate Collection				Cell 3 Secondary Leachate Collection				Cell 4 Secondary Leachate Collection					Cell 5 Secondary Leachate Collection				
	2/5/2018	8/1/2018	2/5/2019	7/31/2019	2/1/2018	8/1/2018	2/4/2019	7/31/2019	2/6/2018	8/1/2018	2/6/2019	7/31/2019	2/6/2018	8/1/2018	2/4/2019	7/31/2019	11/19/2018	2/6/2018	8/1/2018	1/16/2019	2/4/2019	7/31/2019
Semi Volatile Organic Compounds (con't)																						
4-Chloroaniline	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
4-Chlorophenyl-phenylether	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
4-Dimethylaminoazobenzene	0.0094 U				0.0094 U				0.0094 U				0.0094 U					0.0094 U				
4-Nitroaniline	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U		0.047 U	0.047 U
4-Nitrophenol	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U		0.047 U	0.047 U
7,12-Dimethylbenz(a)anthracene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Acenaphthene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Acenaphthylene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Acetophenone	0.0017 J	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Anthracene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Benzo(a)anthracene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Benzo(a)pyrene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Benzo(b)fluoranthene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Benzo(g,h,i)perylene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Benzo(k)fluoranthene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Benzyl alcohol	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Bis(1-chloroisopropyl) Ether	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
bis(2-Chloroethoxy) methane	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
bis(2-Chloroethyl) ether	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
bis(2-Ethylhexyl) phthalate	0.0021 J	0.01 U	0.0097 U	0.0097 U	0.0094 U	0.01 U	0.0097 U	0.0097 U	0.006 J	0.0031 J	0.0097 U	0.0097 U	0.0094 U	0.01 U	0.0097 U	0.0097 U		0.0094 U	0.01 U		0.0097 U	0.0097 U
Butylbenzylphthalate	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Chrysene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Diallate	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Dibenzo(a,h)anthracene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Dibenzofuran	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Diethylphthalate	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Dimethoate	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U		0.047 U	0.047 U
Dimethylphthalate	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Di-n-butylphthalate	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Di-n-octylphthalate	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Diphenylamine	0.0094 UX	0.01 UX	0.0094 U	0.0093 U	0.0094 UX	0.01 UX	0.0094 U	0.0093 U	0.0094 UX	0.01 UX	0.0094 U	0.0093 U	0.0094 UX	0.01 UX	0.0094 U	0.0093 U		0.0094 UX	0.01 UX		0.0094 U	0.0093 U
Disulfoton	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Ethyl methanesulfonate	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Famphur	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00093 U	0.00094 U	0.001 U	0.00094 U	0.00096 U		0.00094 U	0.001 U		0.00094 U	0.00093 U
Fluoranthene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Fluorene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Hexachlorobenzene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Hexachlorocyclopentadiene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Hexachloroethane	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Hexachloropropene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Indeno(1,2,3-cd)pyrene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Isodrin	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Isophorone	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Isosafrole	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Kepone	0.0047 U	0.005 U	0.0047 U	0.0047 U	0.0047 U	0.005 U	0.0047 U	0.0047 U	0.0047 U	0.005 U	0.0047 U	0.0047 U	0.0047 U	0.005 U	0.0047 U	0.0048 U		0.0047 U	0.005 U		0.0047 U	0.0047 U
Methapyrilene	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U		0.047 U	0.047 U
Methyl methanesulfonate	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Nitrobenzene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
N-Nitrosodibutylamine	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
N-Nitrosodiethylamine	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
N-Nitrosodimethylamine	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
N-Nitrosodi-n-propylamine	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
N-Nitrosodiphenylamine/Diphenylamine	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
N-Nitrosomethylethylamine	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
N-Nitrosopiperidine	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U

Please see page 10 for notes

Current and Historic (Last 4 Samplings) Leachate Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	Cell 2 E/F Secondary Leachate Collection				Cell 2 G/H Secondary Lechate Collection				Cell 3 Secondary Leachate Collection				Cell 4 Secondary Leachate Collection					Cell 5 Secondary Leachate Collection				
	2/5/2018	8/1/2018	2/5/2019	7/31/2019	2/1/2018	8/1/2018	2/4/2019	7/31/2019	2/6/2018	8/1/2018	2/6/2019	7/31/2019	2/6/2018	8/1/2018	2/4/2019	7/31/2019	11/19/2018	2/6/2018	8/1/2018	1/16/2019	2/4/2019	7/31/2019
Semi Volatile Organic Compounds (con't)																						
N-Nitrosopyrolidine	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
o,o,o-Triethyl phosphorothioate	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
o-Toluidine	0.0094 U	0.01 U	0.0045 J	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
p-(Dimethylamino)azobenzene		0.01 U	0.0094 U	0.0093 U		0.01 U	0.0094 U	0.0093 U		0.01 U	0.0094 U	0.0093 U		0.01 U	0.0094 U	0.0093 U			0.01 U		0.0094 U	0.0093 U
Pentachlorobenzene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Pentachloronitrobenzene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Pentachlorophenol	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U	0.047 U	0.05 U	0.047 U	0.047 U		0.047 U	0.05 U		0.047 U	0.047 U
Phenacetin	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Phenanthrene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Phorate	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Pronamide	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Pyrene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Safrole	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Thionazin	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Volatile Organic Compounds																						
1,1,1,2-Tetrachloroethane	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1,1-Trichloroethane	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1,2,2-Tetrachloroethane	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1,2-Trichloroethane	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethane	0.25 U	0.25 U	0.25 U	0.25 U	0.00036 J	0.005 U	0.00034 J	0.00046 J	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.00038 J	0.0003 J	0.00034 J
1,1-Dichloroethene	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloropropene	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U		0.005 U	0.005 U
1,2,3-Trichloropropane	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dibromo-3-chloropropane	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dibromoethane	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichlorobenzene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.025 U	0.0094 U	0.01 U	0.005 U	0.0094 U	0.0093 U
1,2-Dichloroethane	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.00039 J	0.00034 J	0.00023 J	0.025 U	0.005 U	0.005 U	0.0058	0.0033 J	0.0013 J
1,2-Dichloropropane	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,3-Dichlorobenzene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
1,3-Dichloropropane	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U		0.005 U	0.005 U
1,4-Dichlorobenzene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.025 U	0.0094 U	0.01 U	0.005 U	0.0094 U	0.0093 U
2,2-Dichloropropane	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U		0.005 U	0.005 U
2-Butanone (MEK)	0.5 U	0.5 U	0.5 U	0.5 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.01 U	0.36 D	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Chloro-1,3-butadiene	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U		0.005 U	0.005 U
2-Hexanone	0.5 U	0.5 U	0.5 U	0.5 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.01 U	0.00082 J	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone	0.5 U	0.5 U	0.5 U	0.5 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.01 U	0.0035 J	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.0019 J	0.01 U	0.01 U
Acetone	0.5 U	0.5 U	0.5 U	0.5 U	0.0058 J	0.01 U	0.01 U	0.0034 J	0.013 J	0.05 U	0.05 U	0.017 J	0.0024 J	0.28 D	0.0031 J	0.0069 J	0.05 U	0.0059 J	0.01 U	0.01 U	0.01 U	0.0031 BJ
Acetonitrile	5 U	5 U	5 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	0.1 U		0.1 U	0.1 U
Acrolein	5 U	5 U	5 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	0.1 U		0.1 U	0.1 U
Acrylonitrile	5 U	5 U	5 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Allyl chloride	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U		0.005 U	0.005 U
Benzene	0.25 U	0.25 U	0.25 U	0.25 U	0.0016 J	0.00065 J	0.00071 J	0.00085 J	0.0025 J	0.0026 J	0.002 J	0.0024 J	0.005 U	0.0002 J	0.00025 J	0.00027 J	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromochloromethane	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromodichloromethane	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromoform	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromomethane	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.01 U	0.0018 J	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Carbon tetrachloride	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chlorobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloroethane	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloroform	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.0016 J	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloromethane	0.25 U	0.25 U	0.016 J	0.017 J	0.00028 J	0.005 U	0.005 U	0.00044 BJ	0.025 U	0.025 U	0.025 U	0.002 BJ	0.005 U	0.005 U	0.005 U	0.00034 BJ	0.025 U	0.00029 J	0.00039 J	0.005 U	0.0004 J	0.005 U
cis-1,2-Dichloroethene	0.25 U	0.25 U	0.25 U	0.25 U	0.0013 J	0.0005 J	0.00098 J	0.0016 J	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.00024 J	0.025 U	0.005 U	0.005 U	0.0017 J	0.005 U	0.0011 J
cis-1,3-Dichloropropene	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U

Please see page 10 for notes

Current and Historic (Last 4 Samplings) Leachate Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	Cell 2 E/F Secondary Leachate Collection				Cell 2 G/H Secondary Lechate Collection				Cell 3 Secondary Leachate Collection				Cell 4 Secondary Leachate Collection					Cell 5 Secondary Leachate Collection				
	2/5/2018	8/1/2018	2/5/2019	7/31/2019	2/1/2018	8/1/2018	2/4/2019	7/31/2019	2/6/2018	8/1/2018	2/6/2019	7/31/2019	2/6/2018	8/1/2018	2/4/2019	7/31/2019	11/19/2018	2/6/2018	8/1/2018	1/16/2019	2/4/2019	7/31/2019
Volatile Organic Compounds (con't)																						
Dibromochloromethane	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Dibromomethane	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Dichlorodifluoromethane	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U		0.005 U	0.005 U
Dichloromethane (Methylene chloride)	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.00067 J
Ethyl benzene	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethyl methacrylate	0.5 U	0.5 U	0.5 U	0.5 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U	0.01 U		0.01 U	0.01 U
Iodomethane	0.5 U	0.5 U	0.5 U	0.077 J	0.01 U	0.01 U	0.01 U	0.0015 BJ	0.05 U	0.05 U	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.0015 BJ	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Isobutyl alcohol	5 U	5 U	5 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	0.1 U		0.1 U	0.1 U
m&p-Xylene	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methacrylonitrile	1 U	1 U	1 U	1 U	0.02 U	0.02 U	0.02 U	0.02 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.02 U	0.02 U	0.02 U		0.02 U	0.02 U		0.02 U	0.02 U
Methyl methacrylate	0.5 U	0.5 U	0.5 U	0.5 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U	0.01 U		0.01 U	0.01 U
o-Xylene	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Phenol	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.024	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Propionitrile	5 U	5 U	5 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	0.1 U		0.1 U	0.1 U
Styrene	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Toluene	0.25 U	0.25 U	0.25 U	0.25 U	0.00025 J	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.00021 J	0.005 U	0.005 U	0.025 U	0.00068 J	0.005 U	0.005 U	0.005 U	0.005 U
trans-1,2-Dichloroethene	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
trans-1,3-Dichloropropene	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
trans-1,4-Dichloro-2-butene	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethene	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Trichlorofluoromethane	0.25 U	0.25 U	0.25 U	0.25 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Vinyl acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vinyl chloride	0.25 U	0.25 U	0.25 U	0.25 U	0.00075 J	0.005 U	0.005 U	0.005 U	0.025 U	0.025 U	0.025 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2,4-Trichlorobenzene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Hexachlorobutadiene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Naphthalene	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U	0.0094 U	0.01 U	0.0094 U	0.0093 U		0.0094 U	0.01 U		0.0094 U	0.0093 U
Wet Chemistry																						
Alkalinity	3170	2880	4240	2740	745	648	508	568	1770	1070	734	728	451	633	578	609	467	240	404	524	526	484
Ammonia Nitrogen	570	417	748	426	37.4	6.25	5.82	8.5	260	108	35.7	61.2	2.18	5.21	7.62	7.2	5.83	0.05 U	0.085	0.015 J	0.065	0.214
Biochemical Oxygen Demand	27.7 *	11.2	66.6 *	45.6	8.3	2.5	2 U	2.1	41.5	12.3	4.5	3.6	2 U	161 *	3.3	2 U	3	14.1	3.1	2 U	2 U	2 U
Bromide	13	13.1	16.3	11.7	0.8 J	1 U	1 U	1 U	4.9	2.8	0.6 J	1 U	1 U	1 U	1 U	1 U	1 U	0.8 J	1 U	1 U	1 U	1 U
Chemical Oxygen Demand	2940	1270	2350	1270	81.4	12.4	20.3	15	575	196	52.5	49.4	12.4	289	23.9	18.6	18.7	57.4	9.1	13.4	6.1	7.4
Chloride	2380	2530	2810	2090	103	36.1	20.6	39.3	722	303	85.2	105	4.5	126	103	60.8	86.2	9	6.4	5.5	5.1	5.1
Color (True) (C.U.)	3600	5750	5000	2750	130	21	48	125	950	550	39	50	135	230	275	175	35	10	16	17	25	20
Cyanide	0.04 J	0.02 J	0.03 J	0.1 U	0.01 U	0.01 U	0.01 U	0.005 U	0.06 U	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.005 U
Hardness	1040	842	831	706	1260	968	902	1060	726	573	559	548	547	678	629	623	706	791	1530	928	951	737
Nitrate Nitrogen	196	11	1 U	1 U	1 U	0.5 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
pH of Color Analysis	7.69 *	8.18 *	7.6	8.17 *	7.06 *	7.38 *	6.93	7.59 *	7.37 *	7.59 *	7.48 *	7.79 *	7.3 *	7.5 *	7.33	7.59 *	7.09	7.77 *	7.75 *	7.23	7.32	7.6 *
Phosphorus																						
Sulfate	434	508	114	145	891	676	564	603	34.7	20.5	61.6	45.6	174	1.2 J	7.9	28.5	190	742	1100	424	442	269
Sulfide	5 U	5 U	3.4 BJ	4 U	0.16 J	0.3 J	3 B	0.51 J	4 U	2.9 J	0.7 J	1 U	0.99 U	1.2	0.7 BJ	0.61 J		0.98 U	0.4 J		0.7 BJ	1 U
Total Dissolved Solids	7740	5870	6010	5070 *	2140	1570	1460	1600 *	2410	1360	865	869 *	726	974	795	789 *	945 *	1330	2040	1250	1230	964 *
Total Kjeldahl Nitrogen	546	495	661	429	35.2	6.82	5.98	8.33	243	104	45.9	52.6	2.29	7.58	8.5	6.58	7.42	0.19 J	0.3	0.25	0.19 J	0.37
Total Organic Carbon (TOC)	520	600	760	450	28.4	6.3	5.5	5.9	177	60	7.4	19.9	4	77	8.1	7	7.2	20.6	5.7	3.4	3.3	3.1
Total Phenolics	0.39	0.45	0.035	0.013	0.0132	0.0023 J	0.0119	0.0049 J	0.09	0.032	0.005 U	0.0033 J	0.005 U	0.0813	0.005 U	0.0011 J	0.005 U	0.0035 J	0.02 U	0.005 U	0.005 U	0.005 U
Total Suspended Solids	1.3	25.2	22	9	32	1 U	10.3	14.9	3	17.2	14.4	14	11.9	11.6	14.8	17.2		7	2.8		8.3	16.6

Notes:

B - Analyte detected in associated method blank

*** -** Denotes analysis was performed outside holding time.

U - Concentration not detected at specified detection limit

X - See laboratory report case narrative for discussion

J/UJ/BJ - Estimated value

Please see page 10 for notes

Table 2

Current and Historic Gas Condensate Analytical Results
Hyland, Facility
Angelica, New York
(mg/L except where noted)

Parameter	Condensate				
	8/6/2015	8/11/2016	8/17/2017	8/20/2018	8/5/2019
Field Parameters					
Field pH (std. units)	6.5	7.41	7.54	7.74	7.49
ORP (mV)	-311.8	-202.8	-233.4	-248.9	-208.8
Specific Conductivity (us/cm)	10034	8127	6577	9118	6424
Temperature (deg. C)	16.6	20.4	24.6	24.1	26.7
Turbidity (NTU)	> 1000	144	1000 >	454	538.1
Inorganic Compounds					
Aluminum	10.9	1.95	35.2	7.65	5.87
Antimony	0.105 J	0.0597 J	0.0288 J	0.0882	0.0562 J
Arsenic	0.195	0.13	0.116	0.261 E	0.167
Barium	0.177	0.0766	0.461	0.33	0.139
Beryllium	0.000775 U	0.00012 U	0.0016 J	0.0004 J	0.0004 J
Boron	2.02	0.0075 U	0.2 U	0.0185 J	0.2 U
Cadmium	0.000845 U	0.0005 J	0.005 U	0.005 U	0.005 U
Calcium	15.2	2.64	7.22	4.07	2.03
Chromium	0.0478 J	0.0064 J	0.0486	0.013	0.0099 J
Chromium, hexavalent	0.1 U	0.065	0.01 U	0.1 U	0.1 U,*
Cobalt	0.0027 U	0.0017 J	0.0227 J	0.0059 J	0.0052 J
Copper	0.0763 J	0.0153 J	0.0728	0.0225	0.0168 J
Iron	27.5	6.55	60.1	13.8	10.6
Lead	0.0245 J	0.01 J	0.0499 J	0.0121 J	0.0094 J
Magnesium	17.1	0.747 J	8.92	2.42	1.69
Manganese	0.253	0.0914	0.939	0.27	0.181
Mercury	0.0011	0.0022	0.0083	0.0076	0.0209
Nickel	0.0469 J	0.0053 J	0.0513	0.0076 J	0.005 J
Potassium	50.2	0.391 J	7.42	1.56 J	1.65 J
Selenium	0.0211 J	0.0033 U	0.01 U	0.01 U	0.01 U
Silver	0.0044 J	0.000463 U	0.01 U	0.01 U	0.01 U
Sodium	177	0.113 J	0.838 J	0.356 J	0.273 J
Thallium	0.0107 U	0.0021 U	0.01 U	0.01 U	0.01 U
Vanadium	0.0174 J	0.0035 J	0.0566	0.0143 J	0.0106 J
Zinc	1.89	0.158 E	0.55	0.681	0.287
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
1,1,1-Trichloroethane	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
1,1,2,2-Tetrachloroethane	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
1,1,2-Trichloroethane	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
1,1-Dichloroethane	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
1,1-Dichloroethene	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
1,2,3-Trichloropropane	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
1,2-Dibromo-3-chloropropane	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
1,2-Dibromoethane	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
1,2-Dichlorobenzene	0.029 J	0.25 U	0.25 U	0.13 U	0.25 U
1,2-Dichloroethane	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
1,2-Dichloropropane	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
1,4-Dichlorobenzene	0.92	0.059 J	0.022 J	0.021 J	0.02 J
2-Butanone (MEK)	2.7	6.5	5.6	5	3.5
2-Hexanone	0.5 U	0.5 U	0.5 U	0.028 J	0.5 U
4-Methyl-2-pentanone	0.18 J	0.15 J	0.19 J	0.16 J	0.15 J
Acetone	3	3	4.4	4.4	4.5
Acrylonitrile	5 U	5 U	5 U	2.5 U	5 U

Please see page 2 for notes.

Table 2

Current and Historic Gas Condensate Analytical Results
Hyland, Facility
Angelica, New York
(mg/L except where noted)

Parameter	Condensate				
	8/6/2015	8/11/2016	8/17/2017	8/20/2018	8/5/2019
Volatile Organic Compounds (con't)					
Benzene	0.25 U	0.018 J	0.01 J	0.0088 J	0.25 U
Bromochloromethane	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
Bromodichloromethane	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
Bromoform	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
Bromomethane	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
Carbon disulfide	0.067 J	0.5 U	0.5 U	0.01 J	0.018 J
Carbon tetrachloride	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
Chlorobenzene	0.02 J	0.25 U	0.25 U	0.13 U	0.25 U
Chloroethane	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
Chloroform	0.25 U	0.25 U	0.25 U	0.13 U	0.018 J
Chloromethane	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
cis-1,2-Dichloroethene	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
cis-1,3-Dichloropropene	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
Dibromochloromethane	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
Dibromomethane	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
Dichloromethane (Methylene chloride)	0.25 U	0.25 U	0.042 J	0.13 U	0.25 U
Ethyl benzene	1.2	0.079 J	0.041 J	0.041 J	0.049 J
Iodomethane	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U
m&p-Xylene	2.7	0.13 J	0.07 J	0.078 J	0.083 J
o-Xylene	1.3	0.066 J	0.035 J	0.035 J	0.043 J
Styrene	0.17 J	0.011 J	0.011 J	0.0094 J	0.25 U
Tetrachloroethene	0.052 J	0.25 U	0.25 U	0.13 U	0.25 U
Toluene	0.85	0.12 J	0.077 J	0.075 J	0.083 J
trans-1,2-Dichloroethene	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
trans-1,3-Dichloropropene	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
trans-1,4-Dichloro-2-butene	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
Trichloroethene	0.014 J	0.25 U	0.25 U	0.13 U	0.25 U
Trichlorofluoromethane	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
Vinyl acetate	0.5 U	0.5 U	0.5 UJ	0.25 U	0.5 U
Vinyl chloride	0.25 U	0.25 U	0.25 U	0.13 U	0.25 U
Wet Chemistry					
Alkalinity	4380	4330	3620	4920	2950
Ammonia Nitrogen	13.9	1150	1140	1850	996
Biochemical Oxygen Demand	44900	2620	1440	2630 *	657
Bromide	0.4 J	1 U	1 U	1 U	1 U
Chemical Oxygen Demand	3160	1730	1000	4040	1590
Chloride	138	2 U	2 U	2 U	1.3 J
Color (True) (C.U.)	1100	100	40	280	35
Cyanide	0.1 U	0.002 J	0.01 U	0.01 U	0.005 U
Hardness	108	9.67	54.8	20.1	12
Nitrate Nitrogen	1 U	1 U	1 U	1 U	1 U
pH of Color Analysis	7.883 *	7.937	8.2 *	8.16	8.03
Sulfate	209	3.5	4.4	73.5	135
Total Dissolved Solids	642	77 U	26	135	288
Total Kjeldahl Nitrogen	1430	1150	1040	1470	999
Total Organic Carbon (TOC)	141	205	320	65	22.9
Total Phenolics	2.79	4.61	9.18	4.95	5.87

Notes:
U - Concentration not detected at specified detection limit
J/UJ - Estimated value
*** -** Denotes analysis was performed outside holding time.
E - Concentration is estimated due to serial dilution was outside control limits.

Please see page 2 for notes.

Table 3

Fourth Quarter 2019 Bedrock Well Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	MW-14 11/5/2019	MW-19 11/6/2019	MW-31 11/7/2019	MW-34 11/4/2019	MW-37 11/6/2019	MW-40 11/7/2019	MW-48 11/4/2019	Class GA Standard
Filed Parameters								
Depth to Groundwater (ft)	38.5	44.84	13.81	150.09	33.8	48.35	155.69	
Dissolved Oxygen		7.18	5.7	1.29	1.58	3.09	2.93	
Field pH (std. units)	7.61	6.73	**6.2**	7.34	7.4	7.38	7.11	6.5 - 8.5
ORP (mV)	144.4	113.7	183.7	-70.9	126.7	153.7	67.6	
Specific Conductivity (us/cm)	311.1	501	420.5	591.5	479.3	440.9	93.4	
Temperature (deg. C)	9.9	6.3	4.9	7.3	11.5	7.4	8.7	
Turbidity (NTU)	1.8	**6.22**	0.86	0.46	1.11	4.49	**6.58**	5
Inorganic Compounds								
Cadmium	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005
Calcium	42.8	65.7	53.5	49.4	67.1	48.4	158	
Iron	0.03 J	**0.43 B**	0.06 BJ	0.2	0.06 BJ	0.24 B	0.27	0.3
Lead	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.025
Magnesium	10.9	23.2	12.5	14.7	22.6	27.4	48	
Manganese	0.01 U	0.028	0.01 U	0.137	0.01 U	0.006 J	0.043	0.3
Potassium	1.9 J	3.5	1.8 J	1.3 J	2.3	2.9	3.6	
Sodium	3.4	16.4	11.6	**75.4**	7.5	9.5	**33.8**	20
General Chemistry								
Alkalinity	139	217	91.2	236	213	187	215	
Ammonia Nitrogen	0.05 U	0.05 U	0.05 U	0.318	0.05 U	0.05 U	0.05 U	2
Biochemical Oxygen Demand	2 U	2 U	2 U	2 U	2 U	2 U	2 U	
Bromide	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Chemical Oxygen Demand	3.9 J	5 U	5 U	5 U	5 U	5 U	5 U	
Chloride	2.7	23.5	53	21.3	11.6	10.9	15	250
Hardness	152	260	185	184	261	234	593	
Nitrate Nitrogen	1 U	0.7 J	0.6 J	1 U	1 U	1 U	1 U	10
Sulfate	19.8	29.4	56.2	64.8	44.5	48.8	**412**	250
Total Dissolved Solids	193	310	256	384	307	284	**815**	500
Total Kjeldahl Nitrogen	0.2 U	0.2 U	0.2 U	0.29	0.2 U	0.2 U	0.2 U	
Total Organic Carbon (TOC)	1 U	1.2	1 U	1 U	1 U	1 U	0.7 J	
Total Phenolics	0.005 U	0.005 U	0.005 U	**0.0014 J**	0.005 U	0.005 U	**0.0015 J**	0.001

Notes:
Class GA Standard - NYSDEC Class GA Groundwater Standard
Concentrations in **bold** exceed Class GA Standards.
U - Concentration not detected at specified detection limit
J - Estimated value

Table 4

Fourth Quarter 2019 Overburden Well Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	MW-26 11/5/2019	MW-34A 11/5/2019	MW-36A 11/5-11/2019	MW-37A 11/5/2019	MW-40A 11/5-11/2019	MW-41A 11/5/2019	MW-42A 11/5-7/2019	MW-45A 11/5/2019	MW-47A 11/6/2019	Class GA Standard
Field Parameters										
Depth to Groundwater (ft)	13	92.27	61.46	31.92	32.78	54.94	65.09	86.95	27	
Dissolved Oxygen									0.56	
Field pH (std. units)	**6.48**	7.18	6.95	7.12	6.69	6.86	7	7.17	7.17	6.5 - 8.5
ORP (mV)	178.3	-43.7	113.5	80.7	183.1	173.2	161.1	19.4	-101.1	
Specific Conductivity (us/cm)	1138	2195	2874	1491	2115	3334	3013	1137	1445	
Temperature (deg. C)	13.1	9.3	9.6	11.9	12.8	13.7	10.8	8.9	8.9	
Turbidity (NTU)	3.68	**8.16**	**7.58**	**5.99**	1.45	4.52	**86.6**	**17.8**	1.88	5
Inorganic Compounds										
Cadmium	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005
Calcium	167	333	473	217	298	554	514	189	208	
Iron	0.13	**4.34**	0.3	0.2	0.05 J	0.19	**5.61**	**2.63**	**1.25**	0.3
Lead	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.025
Magnesium	41.7	113	199	85.5	160	251	192	45.3	72.5	
Manganese	0.006 J	**1.97**	0.016	0.023	0.007 J	0.013	0.261	**1.85**	**1.48**	0.3
Potassium	1.9 J	12.4	11.7	12	9.3	13.2	17.9	9.2	6.1	
Sodium	**60.1**	**92.2**	**76.1**	**43.3**	**58.2**	**110**	**98.9**	**84**	**52.6**	20
General Chemistry										
Alkalinity	379	224	406	353	379	365	364	232	246	
Ammonia Nitrogen	0.05 U	0.182	0.05 U	0.05 U	0.006 J	0.05 U	0.05 U	0.262	0.18	2
Biochemical Oxygen Demand	2 U	2.4	2 U	2 U	2 U	2 U	2 U	14.6	2	
Bromide	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Chemical Oxygen Demand	23.2	12.2	6.7	6.3	4.2 J	7.7	4.2 J	47.7	4.9 J	
Chloride	99.5	2.7	3	1.7 J	3.6	3.4	3.9	12.6	3.1	250
Hardness	588	1300	2000	894	1400	2420	2080	658	819	
Nitrate Nitrogen	0.7 J	0.4 J	1 U	1 U	0.3 J	0.6 J	0.4 J	0.4 J	0.4 J	10
Sulfate	165	**1350**	**1800**	**639**	**1180**	**2330**	**1950**	**572**	**703**	250
Total Dissolved Solids	**804**	**2050**	**2990**	**1270**	**2000**	**3610**	**3170**	**1110**	**1230**	500
Total Kjeldahl Nitrogen	0.45	0.32	0.2 U	0.2 U	0.22	0.11 J	0.18 J	0.44	0.31	
Total Organic Carbon (TOC)	8	3.7	2	1.1	1 J	2.1	1.1	15.9	1.6	
Total Phenolics	0.005 U	0.005 U	**0.0015 BJ**	**0.0011 BJ**	0.005 U	**0.0012 J**	0.005 U	0.005 U	0.005 U	0.001

Notes:
Class GA Standard - NYSDEC Class GA Groundwater Standard
Concentrations in **bold** exceed Class GA Standards.
U - Concentration not detected at specified detection limit
J/BJ - Estimated value

Table 5

Fourth Quarter 2019 Surface Water Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	DB-1 11/7/2019	DB-3 11/11/2019	Class C Standard
Field Parameters			
Dissolved Oxygen	8.56	13.27	Not < 5
Field pH (std. units)	7.68	7.51	6.5 - 8.5
ORP (mV)	156.1	98.7	
Specific Conductivity (us/cm)	203.5	290.3	
Temperature (deg. C)	6	3.3	
Turbidity (NTU)	172	83.4	
Inorganic Compounds			
Cadmium	0.005 U	0.005 U	
Calcium	30.6	42.3	
Iron	8.95	4.33	
Lead	0.005 J	0.05 U	0.008
Magnesium	6.4	10.3	
Manganese	0.221	0.129	
Potassium	7.6	5.7	
Sodium	3.2	3.8	
General Chemistry			
Alkalinity	76.4	92	
Ammonia Nitrogen	0.17	0.107	2
Biochemical Oxygen Demand	2 U	2 U	
Bromide	1 U	1 U	
Chemical Oxygen Demand	9.8	11.5	
Chloride	4.9	4.9	
Hardness	103	148	
Nitrate Nitrogen	0.6 J	0.7 J	
Sulfate	18.7	55.6	
Total Dissolved Solids	203	227	500
Total Kjeldahl Nitrogen	0.77	0.62	
Total Organic Carbon (TOC)	2.8	3.2	
Total Phenolics	0.005 U	0.0016 J	

Notes:
Class C Standard - NYSDEC Class C Surface Water Standard
Concentrations are within Class C Standards.
U - Concentration not detected at specified detection limit

Table 6

Fourth Quarter 2019 Groundwater Suppression System Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	GSS-1 11/5/2019	GSS-2 E/F 11/5/2019	GSS-2 G/H 11/5/2019	GSS-3 11/4/2019	GSS-5 11/4/2019	Class GA Standard
Field Parameters						
Field pH (std. units)	7.03	7.16	6.84	6.91	7.43	6.5 - 8.5
ORP (mV)	111.3	55.1	-18.5	28.6	107.6	
Specific Conductivity (us/cm)	378.5	608	1297	670	469.5	
Temperature (deg. C)	22.4	24.5	20.4	16.2	16	
Turbidity (NTU)	**21**	0.69	**7.68**	0.47	3.68	5
Inorganic Compounds						
Aluminum		0.0417 J		0.031 J		
Antimony		0.06 U		0.06 U		0.003
Arsenic		0.01 U		0.0174		0.025
Barium		0.0601		0.0833		1
Beryllium		0.003 U		0.003 U		
Boron		0.0535 J		0.0912 J		1
Cadmium	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005
Calcium	54.8	83.9	177	94.5	66.5	
Chromium		0.01 U		0.01 U		0.05
Chromium, hexavalent		0.01 U,*		0.01 U,*		
Cobalt		0.05 U		0.05 U		
Copper		0.02 U		0.02 U		0.2
Iron	**0.79**	**0.109**	**2.43**	0.278	0.14	0.3
Lead	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.025
Magnesium	10.5	23.7	83.2	34.7	22	
Manganese	0.025	**0.796**	**0.979**	**0.919**	0.178	0.3
Mercury		0.0002 U		0.0002 U		0.0007
Nickel		0.04 U		0.04 U		0.1
Potassium	3.3	3.36	8	5.65	2.8	
Selenium		0.01 U		0.01 U		0.01
Silver		0.01 U		0.01 U		0.05
Sodium	5.8	7.39	**23.3**	10.7	9.3	20
Thallium		0.01 U		0.01 U		
Vanadium		0.05 U		0.05 U		
Zinc		0.02 U		0.02 U		
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane		0.005 U		0.005 U		0.005
1,1,1-Trichloroethane		0.005 U		0.005 U		0.005
1,1,2,2-Tetrachloroethane		0.005 U		0.005 U		0.005
1,1,2-Trichloroethane		0.005 U		0.005 U		0.001
1,1-Dichloroethane		0.005 U		0.005 U		0.005
1,1-Dichloroethene		0.005 U		0.005 U		0.005
1,2,3-Trichloropropane		0.005 U		0.005 U		0.00004
1,2-Dibromo-3-chloropropane		0.005 U		0.005 U		0.00004
1,2-Dibromoethane		0.005 U		0.005 U		0.005
1,2-Dichlorobenzene		0.005 U		0.005 U		0.003
1,2-Dichloroethane		0.005 U		0.005 U		0.0006
1,2-Dichloropropane		0.005 U		0.005 U		0.001
1,4-Dichlorobenzene		0.005 U		0.005 U		0.003
2-Butanone (MEK)		0.01 U		0.0018 J		0.005
2-Hexanone		0.01 U		0.01 U		0.005
4-Methyl-2-pentanone		0.00049 J		0.00046 J		0.005
Acetone		**0.0051 BJ**		**0.0052 BJ**		0.005
Acrylonitrile		0.1 U		0.1 U		0.005

Please see page 2 for notes.

Table 6

Fourth Quarter 2019 Groundwater Suppression System Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	GSS-1 11/5/2019	GSS-2 E/F 11/5/2019	GSS-2 G/H 11/5/2019	GSS-3 11/4/2019	GSS-5 11/4/2019	Class GA Standard
Volatile Organic Compounds (con't)						
Benzene		0.005 U		0.005 U		0.001
Bromochloromethane		0.005 U		0.005 U		0.005
Bromodichloromethane		0.005 U		0.005 U		0.005
Bromoform		0.005 U		0.005 U		0.005
Bromomethane		0.005 U		0.005 U		0.005
Carbon disulfide		0.01 U		0.01 U		0.005
Carbon tetrachloride		0.005 U		0.005 U		0.005
Chlorobenzene		0.005 U		0.005 U		0.005
Chloroethane		0.005 U		0.005 U		0.005
Chloroform		0.005 U		0.005 U		0.007
Chloromethane		0.0003 J		0.00033 BJ		0.005
cis-1,2-Dichloroethene		0.005 U		0.005 U		0.005
cis-1,3-Dichloropropene		0.005 U		0.005 U		0.0004
Dibromochloromethane		0.005 U		0.005 U		0.005
Dibromomethane		0.005 U		0.005 U		0.005
Dichloromethane (Methylene chloride)		0.005 U		0.005 U		0.005
Ethyl benzene		0.005 U		0.005 U		0.005
Iodomethane		0.01 U		0.01 U		0.005
m&p-Xylene		0.005 U		0.005 U		0.005
o-Xylene		0.005 U		0.005 U		0.005
Styrene		0.005 U		0.005 U		0.005
Tetrachloroethene		0.005 U		0.005 U		0.005
Toluene		0.005 U		0.005 U		0.005
trans-1,2-Dichloroethene		0.005 U		0.005 U		0.005
trans-1,3-Dichloropropene		0.005 U		0.005 U		0.0004
trans-1,4-Dichloro-2-butene		0.005 U		0.005 U		0.005
Trichloroethene		0.005 U		0.005 U		0.005
Trichlorofluoromethane		0.005 U		0.005 U		0.005
Vinyl acetate		0.01 U		0.01 U		0.005
Vinyl chloride		0.005 U		0.005 U		0.002
General Chemistry						
Alkalinity	146	224	340	270	208	
Ammonia Nitrogen	0.05 U	0.063	0.246	0.08	0.05 U	2
Biochemical Oxygen Demand	2 U	2 U	2 U	2 U	2 U	
Bromide	1 U	1 U	1 U	1 U	1 U	
Chemical Oxygen Demand	11.5	5 U	10.5	5 U	5 U	
Chloride	9.1	5.8	7.6	5.7	13.6	250
Color (True) (C.U.)		15		7		15
Cyanide		0.005 U		0.005 U		0.2
Hardness	180	307	784	379	257	
Nitrate Nitrogen	0.5 J	1 U	1.4	1 U	1 U	10
pH of Color Analysis		7.63 *		7.36 *		
Sulfate	36	87.7	**494**	127	38.2	250
Total Dissolved Solids	243	390	**1090**	476	313	500
Total Kjeldahl Nitrogen	0.1 J	0.15 J	0.4	0.15 J	0.2 U	
Total Organic Carbon (TOC)	2.5	1.8	2.8	1.3	1 U	
Total Phenolics	0.005 U	0.001 J	**0.0013 BJ**	0.005 U	0.005 U	0.001

Notes:
Class GA Standard - NYSDEC Class GA Groundwater Standard
Concentrations in **bold** exceed Class GA Standards.
U - Concentration not detected at specified detection limit
J/UJ/BJ - Estimated value
*** -** Analysis performed out of hold time

Please see page 2 for notes.

Current and Historic Bedrock Well Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	MW-14 8/6-7/2018	MW-14 11/12-13/2018	MW-14 4/23/2019	MW-14 7/30/2019	MW-14 11/5/2019	MW-19 8/7/2018	MW-19 11/12/2018	MW-19 4/24/2019	MW-19 7/30/2019	MW-19 11/6/2019	MW-31 8/8/2018	MW-31 11/15/2018	MW-31 4/25/2019	MW-31 8/1/2019	MW-31 11/7/2019
Field Parameters															
Depth to Groundwater (ft)	38.48	38.22	37.3	37.79	38.5	43.5	30.42	31.55	32.88	44.84	13.21	13.18	12.66	12.74	13.81
Dissolved Oxygen						4.5	6.81	5.41	2.14	7.18	3.79	5.21	6.35	3.03	5.7
Field pH (std. units)	8.16	7.86	7.61	7.58	7.61	7.11	6.84	7	7.02	6.73	*6.6*	6.71	*6.6*	*6.47*	*6.2*
ORP (mV)	31.9	70	86.5	107	144.4	68.7	155.2	106	105.9	113.7	79	12.7	154.7	201.7	183.7
Specific Conductivity (us/cm)	270.3	333.2	332.2	306.1	311.1	480.4	453.7	423.8	452.2	501	366.2	340.9	403.3	358.4	420.5
Temperature (deg. C)	13.8	9.5	11.2	12.2	9.9	19	6.8	11.3	16.5	6.3	22.3	9.7	12.7	16.8	4.9
Turbidity (NTU)	1.33	2.89	**5.43**	2.53	1.8	4.87	0.98	0.89	1.03	**6.22**	0.9	1.62	1.69	0.76	0.86
Inorganic Compounds															
Aluminum		0.1 U	0.145				0.1 U	0.0622 J				0.1 U	0.055 J		
Antimony		0.06 U	0.06 U				0.06 U	0.06 U				0.06 U	0.06 U		
Arsenic		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
Barium		0.0865	0.0762				0.056	0.0574				0.0155 J	0.0183 J		
Beryllium		0.003 U	0.003 U				0.003 U	0.003 U				0.003 U	0.003 U		
Boron		0.0225 J	0.0187 J				0.0469 J	0.0269 J				0.0226 J	0.0159 J		
Cadmium	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium	39.9	46.8	45.8	43.8	42.8	59.9	53.3	51.2	53.7	65.7	48.7	46.3	53.6	46.7	53.5
Chromium		0.0057 J	0.0034 J				0.01 U	0.0009 J				0.01 U	0.0009 J		
Chromium, hexavalent		0.01 U	0.01 U,*				0.01 U	0.01 U,*				0.01 U	0.01 U,*		
Cobalt		0.05 U	0.05 U				0.05 U	0.05 U				0.05 U	0.05 U		
Copper		0.02 U	0.02 U				0.02 U	0.02 U				0.02 U	0.02 U		
Iron	0.1 U	0.0784 J	0.137	0.04 BJ	0.03 J	0.3	0.1 U	0.0548 J	0.09 BJ	**0.43 B**	0.1 U	0.1 U	0.0417 J	0.04 J	0.06 BJ
Lead	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Magnesium	9.6	11.7	11.6	11	10.9	21.6	21.4	19.2	21.9	23.2	11.4	11.3	13	10.8	12.5
Manganese	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.018	0.01 U	0.01 U	0.01 U	0.028	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Mercury		0.0002 U	0.0002 U				0.0002 U	0.0002 U				0.0002 U	0.0002 U		
Nickel		0.04 U	0.04 U				0.04 U	0.04 U				0.04 U	0.04 U		
Potassium	1.7 J	1.88 J	1.85 J	1.9 BJ	1.9 J	3.3	3.38	3.16	3.5	3.5	2.4	1.66 J	1.33 J	1.9 BJ	1.8 J
Selenium		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
Silver		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
Sodium	3.3	3.7	3.44	3.5	3.4	*15.4*	*15.2*	*13.8*	*13.6*	*16.4*	10.5	9.85	9.67	10.4	11.6
Thallium		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
Vanadium		0.05 U	0.05 U				0.05 U	0.05 U				0.05 U	0.05 U		
Zinc		0.02 U	0.02 U				0.02 U	0.02 U				0.02 U	0.02 U		
Volatile Organic Compounds															
1,1,1,2-Tetrachloroethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,1,1-Trichloroethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,1,2,2-Tetrachloroethane		0.005 U	0.005 U				0.005 U	0.005 UJ				0.005 U	0.005 U		
1,1,2-Trichloroethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,1-Dichloroethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,1-Dichloroethene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,2,3-Trichloropropane		0.005 U	0.005 U				0.005 U	0.005 UJ				0.005 U	0.005 U		
1,2-Dibromo-3-chloropropane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,2-Dibromoethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,2-Dichlorobenzene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,2-Dichloroethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,2-Dichloropropane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,4-Dichlorobenzene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
2-Butanone (MEK)		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		

Please see page 4 for notes.

Current and Historic Bedrock Well Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	MW-14 8/6-7/2018	MW-14 11/12-13/2018	MW-14 4/23/2019	MW-14 7/30/2019	MW-14 11/5/2019	MW-19 8/7/2018	MW-19 11/12/2018	MW-19 4/24/2019	MW-19 7/30/2019	MW-19 11/6/2019	MW-31 8/8/2018	MW-31 11/15/2018	MW-31 4/25/2019	MW-31 8/1/2019	MW-31 11/7/2019
Volatile Organic Compounds (con't)															
2-Hexanone		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
4-Methyl-2-pentanone		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
Acetone		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
Acrylonitrile		0.1 U	0.1 U				0.1 U	0.1 U				0.1 U	0.1 U		
Benzene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Bromochloromethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Bromodichloromethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Bromoform		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Bromomethane		0.005 UJ	0.005 U				0.005 UJ	0.005 U				0.005 UJ	0.005 U		
Carbon disulfide		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 UJ		
Carbon tetrachloride		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Chlorobenzene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Chloroethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Chloroform		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Chloromethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
cis-1,2-Dichloroethene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
cis-1,3-Dichloropropene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Dibromochloromethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Dibromomethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Dichloromethane (Methylene chloride)		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Ethyl benzene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Iodomethane		0.01 U	0.01 UJ				0.01 U	0.01 U				0.01 UJ	0.01 U		
m&p-Xylene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
o-Xylene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Styrene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Tetrachloroethene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Toluene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
trans-1,2-Dichloroethene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
trans-1,3-Dichloropropene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
trans-1,4-Dichloro-2-butene		0.005 UJ	0.005 UJ				0.005 UJ	0.005 U				0.005 U	0.005 U		
Trichloroethene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Trichlorofluoromethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Vinyl acetate		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
Vinyl chloride		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
General Chemistry															
Alkalinity	123	142	146	133	139	188	190	165	196	217	83.2	91.2	81.2	104	91.2
Ammonia Nitrogen	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Biochemical Oxygen Demand	2 U	***18.1***	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromide	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chemical Oxygen Demand	5 U	5 U	5.8	5 U	3.9 J	4.1 J	5 U	5 U	5 U	5 U	5 U	5 U	5.1 J	5 U	5 U
Chloride	2.4	2.1	2 J	2.1	2.7	29.2	18.3	29.8	20	23.5	21.8	16.3	***42.3***	17.8	***53***
Color (True) (C.U.)		6	10				7	10				9	**16**		
Cyanide		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
Hardness	139	165	162	155	152	238	221	207	224	260	169	162	187	161	185
Nitrate Nitrogen	1 U	0.3 J	1 U	1 U	1 U	0.6 J	0.6 J	0.6 J	0.4 J	0.7 J	0.7 J	0.6 J	0.5 J	0.5 J	0.6 J
pH of Color Analysis		7.78	7.77				7.08	7.28				7.14 *	7.18 *		
Sulfate	17.5	20.1	21.2	19.5	19.8	30.5	20.6	19.1	18	29.4	68.1	56.8	63.6	55.4	56.2
Total Dissolved Solids	171	193	187	184	193	283	268	259	281	310	235	225	242	236	256
Total Kjeldahl Nitrogen	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.16 J	0.17 J	0.2 U	0.2 U	0.2 U	0.11 J	0.09 J	0.2 U	0.2 U	0.2 U
Total Organic Carbon (TOC)	0.4 J	0.4 J	0.6 J	0.7 J	1 U	1.5	1.6	1	1.2	1.2	0.7 J	0.8 J	1 U	0.7 J	1 U
Total Phenolics	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U

Please see page 4 for notes.

Current and Historic Bedrock Well Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	MW-34 8/2/2018	MW-34 11/15/2018	MW-34 4/24/2019	MW-34 8/1/2019	MW-34 11/4/2019	MW-37 8/8/2018	MW-37 11/19/2018	MW-37 4/25/2019	MW-37 8/1/2019	MW-37 11/6/2019	MW-40 8/8/2018	MW-40 11/15/2018	MW-40 4/25/2019	MW-40 7/30/2019	MW-40 11/7/2019	MW-48 8/2/2018	MW-48 4/24/2019	MW-48 8/1/2019	MW-48 11/4/2019
Field Parameters																			
Depth to Groundwater (ft)	150.78	152.8	150.51	148.95	150.09	31.34	27.69	23.49	24.18	33.8	39.01	33.82	34.74	35.12	48.35	154.47	148	147.9	155.69
Dissolved Oxygen	1.4	1.04	2.62	3.12	1.29	3.92	2.07	1.92	3.21	1.58	3.61	3.29	1.21	0.91	3.09	2.4	4.46	1.28	2.93
Field pH (std. units)	7.71	7.67	7.65	7.68	7.34	7.54	7.48	7.42	7.72	7.4	7.17	7.18	7.06	7.08	7.38	7.15	7.31	7.14	7.11
ORP (mV)	-109.4	-166.5	-57.7	-103.1	-70.9	70.7	33.8	137.2	162.4	126.7	84.6	41.6	112	96.2	153.7	22.6	94.1	61.7	67.6
Specific Conductivity (us/cm)	588.7	588.4	592.1	600	591.5	485.7	490.9	484.5	489.3	479.3	314.7	333	312	322	440.9	*1139*	*1220*	*929*	93.4
Temperature (deg. C)	15	7.2	10.2	20.1	7.3	20.9	9.2	15.2	22.1	11.5	22.6	11.3	14	19.5	7.4	21.8	14	22.1	8.7
Turbidity (NTU)	0.4	0.6	0.68	0.38	0.46	3.04	0.44	0.53	0.27	1.11	3.38	0.49	2.53	1.77	4.49	**23.6**	**34.5**	1.94	**6.58**
Inorganic Compounds																			
Aluminum		0.1 U	0.1 U				0.1 U	0.023 J				0.1 U	0.0602 J				3.03		
Antimony		0.06 U	0.06 U				0.06 U	0.06 U				0.06 U	0.06 U				0.06 U		
Arsenic		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U		
Barium		*0.322*	*0.325*				0.0534	0.0557				0.0191 J	0.0168 J				0.0377		
Beryllium		0.003 U	0.003 U				0.003 U	0.003 U				0.003 U	0.003 U				0.003 U		
Boron		0.259	0.253				0.0357 J	0.034 J				0.0466 J	0.0332 J				0.056 J		
Cadmium	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium	48.7	48.6	48.2	46.7	49.4	70.1	73.8 E	69.4	64.8	67.1	35.9	41.3	35.7	35.7	48.4	*187*	*184*	*133*	*158*
Chromium		0.01 U	0.01 U				0.01 U	0.0006 J				0.01 U	0.0009 J				0.0047 J		
Chromium, hexavalent		0.01 U	0.01 U,*				0.01 U	0.01 U,*				0.01 U	0.01 U,*				0.01 U,*		
Cobalt		0.05 U	0.05 U				0.05 U	0.05 U				0.05 U	0.05 U				0.0016 J		
Copper		0.02 U	0.02 U				0.02 U	0.0085 J				0.02 U	0.02 U				0.02 U		
Iron	0.18	0.197	0.199	0.15	0.2	0.14	0.1 U	0.1 U	0.1 U	0.06 BJ	0.09 J	0.1 U	0.0582 J	0.03 BJ	0.24 B	**0.94**	**3.13**	0.08 J	0.27
Lead	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Magnesium	14.7	14.7	14.5	14	14.7	23.5	24.7	23.7	22.1	22.6	15.7	18.8	16.8	16.2	27.4	*56.8*	*60.9*	*40.7*	*48*
Manganese	0.126	0.131	0.127	0.124	0.137	0.007 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.006 J	*0.532*	*0.574*	0.096	0.043
Mercury		0.0002 U	0.0002 U				0.0002 U	0.0002 U				0.0002 U	0.0002 U				0.0002 U		
Nickel		0.04 U	0.04 U				0.04 U	0.04 U				0.04 U	0.04 U				0.04 U		
Potassium	1.5 J	1.5 J	1.35 J	1.6 BJ	1.3 J	3.7	2.54	2.18	2.5	2.3	2.8	2.79	2.26	2.4	2.9	4.7	*6.61*	3.1	3.6
Selenium		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U		
Silver		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U		
Sodium	*75.6*	*79.4*	*74.4*	*72.2*	*75.4*	8.1	8.01	6.77	6.9	7.5	9.3	10.4	8	8.9	9.5	*38.3*	*37.4*	*30.9*	*33.8*
Thallium		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U		
Vanadium		0.05 U	0.05 U				0.05 U	0.05 U				0.05 U	0.05 U				0.0035 J		
Zinc		0.02 U	0.02 U				0.02 U	0.02 U				0.02 U	0.02 U				0.0157 J		
Volatile Organic Compounds																			
1,1,1,2-Tetrachloroethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
1,1,1-Trichloroethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
1,1,2,2-Tetrachloroethane		0.005 U	0.005 UJ				0.005 U	0.005 U				0.005 U	0.005 U				0.005 UJ		
1,1,2-Trichloroethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
1,1-Dichloroethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
1,1-Dichloroethene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
1,2,3-Trichloropropane		0.005 U	0.005 UJ				0.005 U	0.005 U				0.005 U	0.005 U				0.005 UJ		
1,2-Dibromo-3-chloropropane		0.005 U	0.005 U				0.005 UJ	0.005 U				0.005 U	0.005 U				0.005 U		
1,2-Dibromoethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
1,2-Dichlorobenzene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
1,2-Dichloroethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
1,2-Dichloropropane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
1,4-Dichlorobenzene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
2-Butanone (MEK)		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U		

Please see page 4 for notes.

Current and Historic Bedrock Well Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	MW-34 8/2/2018	MW-34 11/15/2018	MW-34 4/24/2019	MW-34 8/1/2019	MW-34 11/4/2019	MW-37 8/8/2018	MW-37 11/19/2018	MW-37 4/25/2019	MW-37 8/1/2019	MW-37 11/6/2019	MW-40 8/8/2018	MW-40 11/15/2018	MW-40 4/25/2019	MW-40 7/30/2019	MW-40 11/7/2019	MW-48 8/2/2018	MW-48 4/24/2019	MW-48 8/1/2019	MW-48 11/4/2019
Volatile Organic Compounds (con't)																			
2-Hexanone		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U		
4-Methyl-2-pentanone		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U		
Acetone		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U		
Acrylonitrile		0.1 U	0.1 U				0.1 U	0.1 U				0.1 U	0.1 U				0.1 U		
Benzene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
Bromochloromethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
Bromodichloromethane		0.005 U	0.005 U				0.005 UJ	0.005 U				0.005 U	0.005 U				0.005 U		
Bromoform		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
Bromomethane		0.005 UJ	0.005 U				0.005 UJ	0.005 U				0.005 UJ	0.005 U				0.005 U		
Carbon disulfide		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U		
Carbon tetrachloride		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
Chlorobenzene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
Chloroethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
Chloroform		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
Chloromethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
cis-1,2-Dichloroethene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
cis-1,3-Dichloropropene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
Dibromochloromethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
Dibromomethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
Dichloromethane (Methylene chloride)		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
Ethyl benzene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
Iodomethane		0.01 UJ	0.01 U				0.01 U	0.01 U				0.01 UJ	0.01 U				0.01 U		
m&p-Xylene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
o-Xylene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
Styrene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
Tetrachloroethene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
Toluene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
trans-1,2-Dichloroethene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
trans-1,3-Dichloropropene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
trans-1,4-Dichloro-2-butene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
Trichloroethene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
Trichlorofluoromethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
Vinyl acetate		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U		
Vinyl chloride		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U		
General Chemistry																			
Alkalinity	239	235	238	234	236	215	213	214	208	213	131	150	137	146	187	223	222	217	215
Ammonia Nitrogen	0.283	0.241	0.335	0.309	0.318	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.016 J	0.05 U	0.05 U	0.05 U
Biochemical Oxygen Demand	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromide	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chemical Oxygen Demand	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloride	18.7	18.8	19.4	21.1	21.3	11.7	10.6	11.9	12.4	11.6	13.1	9.5	12.7	8	10.9	14.3	13.2	13.7	15
Color (True) (C.U.)		12	7				5	14				8	14				**16**		
Cyanide		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U		
Hardness	182	182	180	174	184	272	286	271	253	261	154	181	158	156	234	***700***	***711***	***499***	***593***
Nitrate Nitrogen	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.6 J	0.4 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U
pH of Color Analysis		7.81 *	7.7				7.51	7.98 *				7.5 *	7.76 *				7.56		
Sulfate	60	59.9	65.4	61.3	64.8	42.6	39.4	40.5	39.9	44.5	18.3	16.7	16	15.5	48.8	***425***	***509***	***376***	***412***
Total Dissolved Solids	394	387	386	388	384	310	312 *	304	306	307	195	199	190	196	284	***992***	***926***	***711***	***815***
Total Kjeldahl Nitrogen	0.51	0.44	0.33	0.69	0.29	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.08 J	0.2 U	0.2 U	0.2 U	0.2 U	0.24	0.2 U	0.28	0.2 U
Total Organic Carbon (TOC)	0.6 J	0.8 J	1 U	0.5 J	1 U	0.5 J	0.5 J	1 U	1 U	1 U	0.7 J	0.9 J	0.6 J	1.6	1 U	1.4	1.1	1.4	0.7 J
Total Phenolics	0.005 U	0.005 U	0.005 U	0.005 U	**0.0014 J**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.0015 J**

Notes:
U - Concentration not detected at specified detection limit
J/UJ/BJ - Estimated value
B - Analyte was also detected in associated method blank
E - Concentration is estimated due to serial dilution outside control limits
*** -** Denotes analysis was performed outside holding time.

100	Parameter exceeds Class GA Std but is below EWQV
100	Parameter exceeds both EWQV (mean) and Class GA Std
100	Parameter exceeds EWQV plus three std deviations
100	Parameter exceeds the above criteria

Please see page 4 for notes.

Table 7 Continued

Groundwater Pre-Operational Water Quality Data
and NYSDEC Water Quality Standards
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	Bedrock Pre-Operational Water Quality Data			Class GA Standard
	Mean	Standard Devation	Mean +3 Standard Devations	
Field Parameters				
Field pH (std. units) Lower limit	7.6	0.32	6.64	6.5 - 8.5
Field pH (std. units) Upper limit	7.6	0.32	8.57	6.5 - 8.5
ORP (mV)	94.6	129.3	482.5	
Specific Conductivity (us/cm)	446	88	710	
Turbidity (NTU)	93.3	158	567.3	5
Inorganic Compounds				
Aluminum	1.03/8.3	1.68/8.1	6.08/32.5	
Antimony	0.0112/0.015	0.007/0.004	0.0323/0.028	0.003
Arsenic	0.004/0.009	0.002/0.006	0.009/0.026	0.025
Barium	0.038/0.104	0.024/0.052	0.11/0.26	1
Beryllium	0.0014/0.001	0.0002/0.001	0.002/0.003	
Boron	0.2/0.03	0.09/0.025	0.48/0.106	1
Cadmium	0.0021/0.0019	0.001/0.0013	0.005/0.0057	0.005
Calcium	55.6/46	11.4/9.6	89.8/74.4	
Chromium	0.0043/0.044	0.0051/0.046	0.0196/0.182	0.05
Chromium, hexavalent	0.005/0.005	0/0	0.005/0.005	
Cobalt	0.009/0.009	0.002/0.006	0.015/0.027	
Copper	0.007/0.035	0.004/0.034	0.02/0.138	0.2
Iron	3.7/13.7	10.2/11.8	34.3/49	0.3
Lead	0.0036/0.022	0.0046/0.029	0.017/0.11	0.025
Magnesium	20.1/15.6	5.56/6.52	36.8/35.2	
Manganese	0.0996/0.63	0.2736/0.703	0.9205/2.74	0.3
Mercury	0.0001/0.0001	0/0	0.0001/0.0001	0.0007
Nickel	0.013/0.036	0.004/0.028	0.024/0.118	0.1
Potassium	2.47/3.8	0.85/1.2	5.01/7.3	
Selenium	0.0019/0.001	0.0009/0	0.0047/0.001	0.01
Silver	0.004/0.003	0.002/0.001	0.009/0.006	0.05
Sodium	7.66/7.18	1.79/2.95	13/16	20
Thallium	0.004/0.0008	0.002/0.0007	0.01/0.0029	
Tin3	NA/0.4	NA/0	NA/0.4	
Vanadium	0.014/0.01	0.004/0.005	0.024/0.024	
Zinc	0.0213/0.076	0.0208/0.064	0.0838/0.268	
Wet Chemistry				
Alkalinity	185	61	369	
Ammonia Nitrogen	0.19	0.14	0.6	2
Biochemical Oxygen Demand	2	2	8	
Bromide	0.3	0.2	1	
Chemical Oxygen Demand	12	10	41	
Chloride	9.53	6.89	30.2	250
Color (True) (C.U.)	57	117	407	15
Cyanide	0.006	0.002	0.012	0.2
Hardness	216	40	335	
Nitrate Nitrogen	0.28	0.2	0.88	10
Sulfate	51.5	25.2	127.1	250
Sulfide	0.4	0.66	2.39	
Total Dissolved Solids	247	78	480	500
Total Kjeldahl Nitrogen	0.62	0.63	2.53	
Total Organic Carbon (TOC)	2	1.3	5.8	
Total Phenolics	0.0044	0.0068	0.025	0.001

Notes:

Pre-operational data from wells MW-14, MW-19, MW-26, MW-31, MW-36A, MW-37, MW-37A, MW-38, MW-38A, MW-39A, MW-40, MW-40A, MW-41A, MW-42A and MW-47A; with the exception of Tin which is the preceeding list of wells plus MW-15, MW-15A, MW-16, MW-17, MW-20, MW-20A, MW-21, MW-21R, MW-21AR, MW-22, MW-23, MW-27, MW-27A, MW-28, MW-28A, MW-29, MW-29A, MW-30, MW-30A, MW-F, MW-G and MW-H.

Table 7A

Bedrock Well MW-48 Analytical Results Compared to Intra-Well EWQVs
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	Pre-Operational Groundwater Results				Operational Results				Intra-Well Existing Water Quality Values Calculations					Class GA Standard
	MW-48 6/1/2017	MW-48 7/26/2017	MW-48 9/6/2017	MW-48 11/7/2017	MW-48 4/30/2018	MW-48 8/02/2018	MW-48 4/24/2019	MW-48 8/1/2019	Minimum	Maximum	Mean (EWQV)	Standard Deviation	Mean +3 Standard Deviations	
Field Parameters														
Dissolved Oxygen	1.49	2.99	3.33	4.61	2.36	2.4	4.46	1.28	1.49	4.61	3.11	1.28	6.95	
Field pH (std. units)	6.86	7.19	6.97	7.18	7.16	7.15	7.31	7.14	6.86	7.19	7.05	0.16	7.54	6.5 - 8.5
ORP (mV)	44.6	168	113.7	76.4	130	22.6	94.1	61.7	44.60	168.00	100.68	53.03	259.76	
Specific Conductivity (us/cm)	1716	1148	1549	1972	1147	1139	1220	929	1148.00	1972.00	1596.25	345.78	2633.59	
Temperature (deg. C)	14	21.1	16.7	6.7	14	21.8	14	22.1	6.70	21.10	14.63	6.04	32.74	
Turbidity (NTU)	40.9	86.5	79.9	34.1	**69.2**	**23.6**	**34.5**	1.94	34.10	86.50	60.35	26.67	140.35	5
Inorganic Compounds														
Aluminum	1.92	6.75	4.24	2.55			3.03		1.92	6.75	3.87	2.16	10.34	
Antimony	0.03	0.03	0.03	0.03			0.06 U		0.03	0.03	0.03	0.00	0.03	0.003
Arsenic	0.005	0.0037	0.0037	0.005			0.01 U		0.00	0.01	0.00	0.00	0.01	0.025
Barium	0.0464	0.0551	0.044	0.0426			0.0377		0.04	0.06	0.05	0.01	0.06	1
Beryllium	0.0015	0.0015	0.0015	0.0015			0.003 U		0.00	0.00	0.00	0.00	0.00	
Boron	0.112	0.1	0.1	0.1			0.056		0.10	0.11	0.10	0.01	0.12	1
Cadmium	0.0025	0.0025	0.0025	0.0025	0.005 U	0.005 U	0.005 U	0.005U	0.00	0.00	0.00	0.00	0.00	0.005
Calcium	295	188	219	336	173	187	184	133	188	336	260	68	463	
Chromium	0.0017	0.0081	0.0048	0.0032			0.0047 J		0.00	0.01	0.00	0.00	0.01	0.05
Chromium, hexavalent	0.005	0.005	0.005	0.005			0.01 U		0.01	0.01	0.01	0.00	0.01	
Cobalt	0.0023	0.0036	0.025	0.025			0.0016 J		0.00	0.03	0.01	0.01	0.05	
Copper	0.0014	0.01	0.01	0.01			0.02 U		0.00	0.01	0.01	0.00	0.02	0.2
Iron	1.76	5.83	3.9	2.84	**1.62**	**0.94**	**3.13**	0.08 J	1.76	5.83	3.58	1.73	8.79	0.3
Lead	0.025	0.025	0.025	0.025	0.05 U	0.05 U	0.05 U	0.05 U	0.03	0.03	0.03	0.00	0.03	0.025
Magnesium	95.7	56.6	69.3	105	52.3	56.8	60.9	40.7	56.6	105.0	81.7	22.5	149.2	
Manganese	1.23	0.59	0.301	0.526	0.132	0.532	**0.574**	0.096	0.30	1.23	0.66	0.40	1.86	0.3
Mercury	0.0001	0.0001	0.0001	0.0001			0.0002 U		0.00	0.00	0.00	0.00	0.00	0.0007
Nickel	0.02	0.02	0.02	0.02			0.04 U		0.02	0.02	0.02	0.00	0.02	0.1
Potassium	12.9	9.95	10.7	10.3	4.4	4.7	6.61	3.1	9.95	12.90	10.96	1.33	14.95	
Selenium	0.005	0.005	0.005	0.005			0.01 U		0.01	0.01	0.01	0.00	0.01	0.01
Silver	0.005	0.005	0.005	0.005			0.01 U		0.01	0.01	0.01	0.00	0.01	0.05
Sodium	32.9	36	35	36.7	**39.2**	**38.3**	**37.4**	**30.9**	32.90	36.70	35.15	1.65	40.11	20
Thallium	0.0041	0.005	0.0076	0.0071			0.01 U		0.00	0.01	0.01	0.00	0.01	
Vanadium	0.0038	0.0109	0.007	0.004			0.0035 J		0.00	0.01	0.01	0.00	0.02	
Zinc	0.0068	0.0155	0.0105	0.0101			0.0157 J		0.01	0.02	0.01	0.00	0.02	

Table 7A

Bedrock Well MW-48 Analytical Results Compared to Intra-Well EWQVs
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	Pre-Operational Groundwater Results				Operational Results				Intra-Well Existing Water Quality Values Calculations					Class GA Standard
	MW-48 6/1/2017	MW-48 7/26/2017	MW-48 9/6/2017	MW-48 11/7/2017	MW-48 4/30/2018	MW-48 8/02/2018	MW-48 4/24/2019	MW-48 8/1/2019	Minimum	Maximum	Mean (EWQV)	Standard Deviation	Mean +3 Standard Deviations	
Wet Chemistry														
Alkalinity	228	231	228	232	223	223	222	217	228	232	230	2	236	
Ammonia Nitrogen	0.025	0.057	0.025	0.025	0.05 U	0.016 J	0.05 U	0.05 U	0.03	0.06	0.03	0.02	0.08	2
Biochemical Oxygen Demand	1	4.5	1	2.8	2 U	2 U	2 U	2 U	1.00	4.50	2.33	1.68	7.37	
Bromide	0.5	0.5	0.5	0.5	1 U	1 U	1 U	1 U	0.50	0.50	0.50	0.00	0.50	
Chemical Oxygen Demand	5.4	5	7.5	12.7	4 J	5 U	5 U	5 U	5.00	12.70	7.65	3.54	18.27	
Chloride	13.8	15.2	13.9	12.8	13.3	14.3	13.2	13.7	12.80	15.20	13.93	0.98	16.88	250
Color (True) (C.U.)	14	35	15	21			**16**		14.00	35.00	21.25	9.67	50.27	15
Cyanide	0.005	0.005	0.005	0.005			0.01 U		0.01	0.01	0.01	0.00	0.01	0.2
Hardness	1130	701	833	1270	648	700	711	499	701	1270	984	262	1770	
Nitrate Nitrogen	0.5	0.5	0.6	0.6	1 U	1 U	1 U	1 U	0.50	0.60	0.55	0.06	0.72	10
Sulfate	646	456	680	988	**430**	**425**	**509**	**376**	456	988	693	220	1353	250
Total Dissolved Solids	1200	988	1260	1630	**897**	**992**	**926**	**711**	988	1630	1270	267	2071	500
Total Kjeldahl Nitrogen	0.28	0.32	0.3	0.38	0.08 J	0.24	0.2 U	0.28	0.28	0.38	0.32	0.04	0.45	
Total Organic Carbon (TOC)	0.6	1.1	1.2	1.5	1.4	1.4	1.1	1.4	0.60	1.50	1.10	0.37	2.22	
Total Phenolics	0.0025	0.0025	0.0025	0.0025	0.005 U	0.005 U	0.005 U	0.005 U	0.003	0.003	0.003	0.000	0.003	0.001

Notes:

1) Four rounds pre-operational sample results used to calculate intra-well EWQVs

2) Calcualations use 1/2 detection limit for non-detects

100	- parameter exceeds the Class GA Standard but is below the EWQV
100	- parameter exceeds both the EWQV (mean) and the Class GA Standard
100	- parameter exceeds the EWQV (mean) plus three standard deviations
100	- parameter exceeds Class GA and EWQV + three standard deviations

Current and Historic Overburden Well Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	MW-26 8/6-7/2018	MW-26 11/13/2018	MW-26 4/23/2019	MW-26 7/29-30/2019	MW-26 11/5/2019	MW-34A 8/6-7/2018	MW-34A 11/13-14/2018	MW-34A 4/23-24/2019	MW-34A 7/30/2019	MW-34A 11/5/2019	MW-36A 8/7-9/2018	MW-36A 11/13-14/2018	MW-36A 4/23-25/2019	MW-36A 8/5/2019	MW-36A 11/5-11/2019	MW-37A 8/7-8/2018	MW-37A 11/13-14/2018	MW-37A 4/23-25/2019	MW-37A 7/29-30/2019	MW-37A 11/5/2019
Field Parameters																				
Depth to Groundwater (ft)	12.88	13.36	13.33	12.6	13	96.2	95.56	91.83	92.43	92.27	62.14	62.62	61.76	61.53	61.46	34.3	33.97	32	32.41	31.92
Dissolved Oxygen																				
Field pH (std. units)	6.52	6.58	6.9	6.65	**6.48**	7.2	7.33	7.29	7.23	7.18	6.88	6.87	6.9	7.01	6.95	7.21	7.17	7.12	7.19	7.12
ORP (mV)	50.4	143.4	111.7	112.2	178.3	-151.1	-63.8	-75.4	-54.7	-43.7	29.7	133.2	92.2	77.7	113.5	81.1	124.1	130	89.7	80.7
Specific Conductivity (us/cm)	1185	1011	1289	1202	1138	223.8	2242	2222	2253	2195	2956	2963	2958	2961	2874	1440	1478	1539	1526	1491
Temperature (deg. C)	17.3	12.5	9.3	14.2	13.1	12.2	8.6	11.7	13.5	9.3	14.2	9.1	11	13.6	9.6	15.3	11.7	12.9	15.8	11.9
Turbidity (NTU)	**7.27**	**26.2**	**15.5**	**10.5**	3.68	**17**	**36.3**	**22.1**	**15.8**	**8.16**	***180***	**43.3**	**18.6**	4.18	**7.58**	**8.27**	**25.1**	3.94	**10**	**5.99**
Inorganic Compounds																				
Aluminum		0.977	0.539				1.1	0.815				2.06	0.824				0.854	0.0745 J		
Antimony		0.06 U	0.06 U				0.06 U	0.06 U				0.06 U	**0.0047 J**				0.06 U	0.06 U		
Arsenic		0.01 U	0.01 U				0.0094 J	0.0113				0.01 U	0.01 U				0.01 U	0.01 U		
Barium		0.0629	0.0597				0.0286	0.0278				0.0184 J	0.0124 J				0.0154 J	0.011 J		
Beryllium		0.003 U	0.003 U				0.003 U	0.003 U				0.003 U	0.003 U				0.003 U	0.003 U		
Boron		0.0231 J	0.0159 J				0.127 J	0.124 J				0.131 J	0.125 J				0.144 J	0.14 J		
Cadmium	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium	176	148	175	165	167	364	387	360	350	333	536	541	543	498	473	213	223	225	218	217
Chromium		0.01 U	0.001 J				0.01 U	0.0008 J				0.002 J	0.0015 J				0.01 U	0.0007 J		
Chromium, hexavalent		0.01 U	0.01 U,*				0.05 U	0.05 U,*					0.01 U,*				0.01 U	0.01 U,*		
Cobalt		0.05 U	0.05 U				0.05 U	0.0014 J				0.05 U	0.05 U				0.05 U	0.05 U		
Copper		0.02 U	0.02 U				0.02 U	0.02 U				0.02 U	0.02 U				0.02 U	0.02 U		
Iron	0.23	**0.848**	**0.49**	0.24 B	0.13	***5.96***	***6.03***	***5.63***	***4.12***	***4.34***	***6.84***	**2.07**	**0.745**	0.04 J	0.3	0.26	**0.846**	0.0674 J	0.2 B	0.2
Lead	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Magnesium	43.3	37.1	43.4	40.9	41.7	112	113	114	105	113	201	198	201	196	199	78.2	81.6	87.1	82	85.5
Manganese	0.01 U	0.0275	0.01	0.005 J	0.006 J	***3.45***	***2.67***	***2.18***	***1.83***	***1.97***	0.213	0.101	0.0209	0.006 J	0.016	0.006 J	0.0152	0.01 U	0.015	0.023
Mercury		0.0002 U	0.0002 U				0.0002 U	0.0002 U				0.0002 U	0.0002 U				0.0002 U	0.0002 U		
Nickel		0.04 U	0.04 U				0.04 U	0.04 U				0.04 U	0.04 U				0.04 U	0.04 U		
Potassium	1.9 J	3.07	1.84 J	1.8 BJ	1.9 J	13.4	14	14.6	12.9	12.4	14.4	12.7	13.3	11.8	11.7	12	13.1	12.4	12.3	12
Selenium		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
Silver		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
Sodium	**59.5**	**55.7**	**57.1**	**56.4**	**60.1**	***94.7***	***101***	***97.2***	***92.2***	***92.2***	***84.2***	***88.1***	***84***	**75.2**	**76.1**	**43.5**	**46.3**	**41.2**	**43.2**	**43.3**
Thallium		0.01 U	0.0084 J				***0.009 J***	***0.0178***				***0.01***	***0.023***				0.0085 J	0.01 U		
Vanadium		0.05 U	0.05 U				0.002 J	0.05 U				0.0027 J	0.05 U				0.05 U	0.05 U		
Zinc		0.02 U	0.02 U				0.02 U	0.02 U				0.016 J	0.02 U				0.0104 J	0.02 U		
Volatile Organic Compounds																				
1,1,1,2-Tetrachloroethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,1,1-Trichloroethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,1,2,2-Tetrachloroethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,1,2-Trichloroethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,1-Dichloroethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,1-Dichloroethene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,2,3-Trichloropropane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,2-Dibromo-3-chloropropane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,2-Dibromoethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,2-Dichlorobenzene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,2-Dichloroethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,2-Dichloropropane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,4-Dichlorobenzene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
2-Butanone (MEK)		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
2-Hexanone		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
4-Methyl-2-pentanone		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
Acetone		0.0025 J	0.01 U				0.0026 J	0.01 U				0.0034 J	0.01 U				0.0022 J	0.01 U		

Please see page 4 for notes.

Current and Historic Overburden Well Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	MW-26 8/6-7/2018	MW-26 11/13/2018	MW-26 4/23/2019	MW-26 7/29-30/2019	MW-26 11/5/2019	MW-34A 8/6-7/2018	MW-34A 11/13-14/2018	MW-34A 4/23-24/2019	MW-34A 7/30/2019	MW-34A 11/5/2019	MW-36A 8/7-9/2018	MW-36A 11/13-14/2018	MW-36A 4/23-25/2019	MW-36A 8/5/2019	MW-36A 11/5-11/2019	MW-37A 8/7-8/2018	MW-37A 11/13-14/2018	MW-37A 4/23-25/2019	MW-37A 7/29-30/2019	MW-37A 11/5/2019
Volatile Organic Compounds (con't)																				
Acrylonitrile		0.1 U	0.1 U				0.1 U	0.1 U				0.1 U	0.1 U				0.1 U	0.1 U		
Benzene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Bromochloromethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Bromodichloromethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Bromoform		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Bromomethane		0.005 UJ	0.005 U				0.005 UJ	0.005 U				0.005 UJ	0.005 U				0.005 UJ	0.005 U		
Carbon disulfide		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
Carbon tetrachloride		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Chlorobenzene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Chloroethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Chloroform		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Chloromethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
cis-1,2-Dichloroethene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
cis-1,3-Dichloropropene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Dibromochloromethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Dibromomethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Dichloromethane (Methylene chloride)		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Ethyl benzene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Iodomethane		0.01 U	0.01 UJ				0.01 U	0.01 UJ				0.01 U	0.01 UJ				0.01 U	0.01 UJ		
m&p-Xylene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
o-Xylene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Styrene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Tetrachloroethene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Toluene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
trans-1,2-Dichloroethene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
trans-1,3-Dichloropropene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
trans-1,4-Dichloro-2-butene		0.005 UJ	0.005 UJ				0.005 UJ	0.005 UJ				0.005 UJ	0.005 UJ				0.005 UJ	0.005 UJ		
Trichloroethene		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Trichlorofluoromethane		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Vinyl acetate		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
Vinyl chloride		0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
General Chemistry																				
Alkalinity	377	352	394	360	379	281	242	249	231	224			379	398	406	336	340	374	352	353
Ammonia Nitrogen	0.05 U	0.05 U	0.05 U	0.048 J	0.05 U	*0.753*	0.218	0.121	0.176	0.182	0.05 U		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.123	0.05 U
Biochemical Oxygen Demand	2 U	2 U	2 U	3.8	2 U	6.2	5.6	2 U	2 U	2.4					2 U	2 U	2.7	2 U	2 U	2 U
Bromide	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U			1 U		1 U	1 U	1 U	1 U	1 U	1 U
Chemical Oxygen Demand	17.2	*20.6*	*24.8*	*35.6*	*23.2*	*30.6*	*43.9*	*26.3*	9.9	12.2	5.8		14.3	6.3	6.7	17.2	3.4 J	9.1	5 U	6.3
Chloride	*90.4*	*91.1*	*96*	*92.6*	*99.5*	2.7	2.3	2.4	2.1	2.7			2.5		3	1.4 J	1.3 J	1.1 J	1 J	1.7 J
Color (True) (C.U.)		15	**16**				**37**	**18**					**17**				6	**28**		
Cyanide		0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
Hardness	618	522	617	580	588	1370	1430	1370	1310	1300	2170	2170	2180	2050	2000	854	894	921	880	894
Nitrate Nitrogen	0.7 J	0.7 J	0.3 J	0.7 J	0.7 J	1 U	0.3 J	1 U	0.2 J	0.4 J			1 U		1 U	1 U	1 U	1 U	1 U	1 U
pH of Color Analysis		6.67	7.19				7.27	7.44					7.27				7.21	7.96 *		
Sulfate	138	132	148	151	165	*1180*	*1240*	*1320*	*1200*	*1350*			*1850*		*1800*	**563**	**576**	**674**	**628**	**639**
Total Dissolved Solids	**812**	**744**	**797**	**784**	**804**	*2180*	*2070*	*2080*	*2090*	*2050*			*3000*		*2990*	**1230**	**1230**	**1330**	**1280**	**1270**
Total Kjeldahl Nitrogen	0.46	0.54	0.53	1.17	0.45	2.1	1.32	0.81	0.45	0.32	0.27		0.24	0.11 J	0.2 U	0.1 J	0.25 J	0.24	0.24	0.2 U
Total Organic Carbon (TOC)	7.6	6.7	7.8	12.1	8	11.1	11.1	6	3.6	3.7			2	2.3	2	1.1	2.7	0.8 J	0.9 J	1.1
Total Phenolics	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0032 J	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U	0.005 U	**0.0015 BJ**	0.005 U	0.005 U	0.005 U	0.005 U	**0.0011 BJ**

Please see page 4 for notes.

Table 8

Current and Historic Overburden Well Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	MW-40A 8/6-7/2018	MW-40A 4/23/2019	MW-40A 7/29-30/2019	MW-40A 11/5-11/2019	MW-41A 8/6-7/2018	MW-41A 11/12-13/2018	MW-41A 4/23-24/2019	MW-41A 7/29-30/2019	MW-41A 11/5/2019	MW-42A 8/6-9/2018	MW-42A 11/12/2018	MW-42A 4/24/2019	MW-42A 7/29-30/2019	MW-42A 11/5-7/2019	MW-45A 8/7/2018	MW-45A 11/13-18/2018	MW-45A 4/23-24/2019	MW-45A 7/29-30/2019	MW-45A 11/5/2019	MW-47A 8/7/2018	MW-47A 11/15/2018	MW-47A 4/24/2019	MW-47A 8/1/2019	MW-47A 11/6/2019
Field Parameters																								
Depth to Groundwater (ft)	34.28	32.48	32.91	32.78	55.05	55.59	54.74	54.5	54.94	65.33	65.62	64.95	64.75	65.09	90.28	88.94	85.58	86.54	86.95	27.67	28.75	23.83	24.37	27
Dissolved Oxygen																				2.09	2.95	1.16	0.52	0.56
Field pH (std. units)	6.98	6.98	6.99	6.69	6.95	6.99	6.99	6.97	6.86	6.92	6.95	6.94	6.92	7	7.31	7.27	7.46	7.38	7.17	7.3	7.3	7.18	7.21	7.17
ORP (mV)	67.6	94.1	125.6	183.1	76.2	161.6	139.6	135	173.2	-166.9	56.6	87.3	104.4	161.1	14.6	-58.3	-51.1	-68	19.4	-202.9	-135	34	-192.3	-101.1
Specific Conductivity (us/cm)	2112	2185	2198	2115	3404	3418	3425	3484	3334	3086	3073	3066	3158	3013	1411	1399	1445	1371	1137	1451	1487	1461	1470	1445
Temperature (deg. C)	17.2	14.6	16.2	12.8	16.9	13	15.1	16.8	13.7	14.4	9.6	12.2	14.4	10.8	11.9	8.7	10.7	14	8.9	20.6	6.4	14.3	23.3	8.9
Turbidity (NTU)	**14.6**	2.57	4.53	1.45	2.31	**9.59**	1.16	1	4.52	**5.63**	**46.4**	**15.5**	**13.9**	**86.6**	**19.7**	**80.8**	**18.1**	**14**	**17.8**	**22.4**	**7.87**	4.63	4.22	1.88
Inorganic Compounds																								
Aluminum		0.0462 J				0.404	0.0579 J				2.09	0.783				2.95	0.603				0.303	0.141		
Antimony		0.06 U				0.06 U	0.06 U				0.06 U	0.06 U				**0.0077 J**	0.06 U				0.06 U	0.06 U		
Arsenic		0.01 U				0.01 U	0.01 U				0.0048 J	0.01 U				0.0062 J	0.0041 J				0.01 U	0.01 U		
Barium		0.0101 J				0.0142 J	0.0115 J				0.0204	0.0128 J				0.04	0.0311				0.0182 J	0.0174 J		
Beryllium		0.003 U				0.003 U	0.003 U				0.003 U	0.003 U				0.003 U	0.003 U				0.003 U	0.003 U		
Boron		0.166 J				0.196 J	0.187 J				0.166 J	0.159 J				0.114 J	0.108 J				0.1 J	0.12 J		
Cadmium	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium	321	330	324	298	610	623	621	594	554	554	577	548	552	514	185	190	188	190	189	216	231	219	231	208
Chromium		0.0007 J				0.01 U	0.0011 J				0.0032 J	0.002 J				0.0024 J	0.0007 J				0.01 U	0.0026 J		
Chromium, hexavalent		0.01 U,*				0.01 U	0.01 U,*									0.01 U	0.01 U,*				0.01 U	0.01 U,*		
Cobalt		0.05 U				0.05 U	0.05 U				0.05 U	0.05 U				0.05 U	0.001 J				0.05 U	0.05 U		
Copper		0.02 U				0.02 U	0.02 U				0.02 U	0.02 U				0.02 U	0.02 U				0.02 U	0.02 U		
Iron	**0.62**	0.0311 J	0.11 B	0.05 J	0.1 U	**0.372**	0.042 J	0.03 BJ	0.19	**3.02**	**3.22**	**1.51**	**0.84**	***5.61***	**1.43**	***5.47***	**2.55**	**2.27**	**2.63**	**1.42**	**1.28**	**0.562**	**0.98**	**1.25**
Lead	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Magnesium	163	164	156	160	250	252	246	234	251	189	189	191	178	192	49.7	48.7	45.8	45	45.3	73	73.5	72.6	70.7	72.5
Manganese	0.068	0.0104	0.011	0.007 J	0.01 U	0.0191	0.0067 J	0.01 U	0.013	***8.1***	**0.352**	0.241	0.084	0.261	***1.93***	***1.93***	***2.06***	***1.95***	***1.85***	***4.18***	***1.66***	**0.557**	***1.64***	***1.48***
Mercury		0.0002 U				0.0002 U	0.0002 U				0.0002 U	0.0002 U				0.0002 U	0.0002 U				0.0002 U	0.0002 U		
Nickel		0.04 U				0.04 U	0.04 U				0.04 U	0.04 U				0.04 U	0.04 U				0.04 U	0.04 U		
Potassium	10.4	10.7	10	9.3	15.5	16.4	15.1	14.2	13.2	19.8	20.1	18.8	17.7	17.9	13.9	13.1	10.1	9.6	9.2	6.9	6.97	6.57	6.2	6.1
Selenium		0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
Silver		0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
Sodium	**60.3**	**58.8**	**58.9**	**58.2**	***118***	***127***	***112***	***114***	***110***	***104***	***111***	***104***	***100***	***98.9***	***95.4***	***99.8***	***93.6***	***90.2***	***84***	**52.2**	**58.8**	**54.2**	**50.7**	**52.6**
Thallium		***0.0154***				***0.0136***	***0.0225***				***0.0213***	***0.0222***				0.01 U	0.01 U				0.01 U	0.01 U		
Vanadium		0.05 U				0.05 U	0.05 U				0.0035 J	0.05 U				0.0045 J	0.05 U				0.05 U	0.05 U		
Zinc		0.02 U				0.02 U	0.02 U				0.0297	0.0133 J				0.0112 J	0.02 U				0.02 U	0.02 U		
Volatile Organic Compounds																								
1,1,1,2-Tetrachloroethane		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,1,1-Trichloroethane		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,1,2,2-Tetrachloroethane		0.005 U				0.005 U	0.005 U				0.005 U	0.005 UJ				0.005 U	0.005 U				0.005 U	0.005 UJ		
1,1,2-Trichloroethane		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,1-Dichloroethane		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,1-Dichloroethene		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,2,3-Trichloropropane		0.005 U				0.005 U	0.005 U				0.005 U	0.005 UJ				0.005 U	0.005 U				0.005 U	0.005 UJ		
1,2-Dibromo-3-chloropropane		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,2-Dibromoethane		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,2-Dichlorobenzene		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,2-Dichloroethane		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,2-Dichloropropane		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
1,4-Dichlorobenzene		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
2-Butanone (MEK)		0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
2-Hexanone		0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
4-Methyl-2-pentanone		0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
Acetone		0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		

Please see page 4 for notes.

Current and Historic Overburden Well Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	MW-40A 8/6-7/2018	MW-40A 4/23/2019	MW-40A 7/29-30/2019	MW-40A 11/5-11/2019	MW-41A 8/6-7/2018	MW-41A 11/12-13/2018	MW-41A 4/23-24/2019	MW-41A 7/29-30/2019	MW-41A 11/5/2019	MW-42A 8/6-9/2018	MW-42A 11/12/2018	MW-42A 4/24/2019	MW-42A 7/29-30/2019	MW-42A 11/5-7/2019	MW-45A 8/7/2018	MW-45A 11/13-18/2018	MW-45A 4/23-24/2019	MW-45A 7/29-30/2019	MW-45A 11/5/2019	MW-47A 8/7/2018	MW-47A 11/15/2018	MW-47A 4/24/2019	MW-47A 8/1/2019	MW-47A 11/6/2019
Volatile Organic Compounds (con't)																								
Acrylonitrile		0.1 U				0.1 U	0.1 U				0.1 U	0.1 U				0.1 U	0.1 U				0.1 U	0.1 U		
Benzene		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Bromochloromethane		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Bromodichloromethane		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Bromoform		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Bromomethane		0.005 U				0.005 UJ	0.005 U				0.005 UJ	0.005 U				0.005 UJ	0.005 U				0.005 UJ	0.005 U		
Carbon disulfide		0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.00033 J	0.01 U				0.01 U	0.01 U		
Carbon tetrachloride		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Chlorobenzene		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Chloroethane		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Chloroform		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Chloromethane		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
cis-1,2-Dichloroethene		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
cis-1,3-Dichloropropene		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Dibromochloromethane		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Dibromomethane		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Dichloromethane (Methylene chloride)		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Ethyl benzene		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Iodomethane		0.01 UJ				0.01 U	0.01 UJ				0.01 U	0.01 U				0.01 U	0.01 UJ				0.01 UJ	0.01 U		
m&p-Xylene		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
o-Xylene		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Styrene		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Tetrachloroethene		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Toluene		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
trans-1,2-Dichloroethene		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
trans-1,3-Dichloropropene		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
trans-1,4-Dichloro-2-butene		0.005 UJ				0.005 UJ	0.005 UJ				0.005 UJ	0.005 U				0.005 UJ	0.005 UJ				0.005 U	0.005 U		
Trichloroethene		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Trichlorofluoromethane		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
Vinyl acetate		0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
Vinyl chloride		0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U				0.005 U	0.005 U		
General Chemistry																								
Alkalinity		393	382	379	366	357	364	363	365	392			370	364	254	238	243	240	232	283	246	240	249	246
Ammonia Nitrogen	0.05 U	0.05 UJ	0.05 U	0.006 J	0.135	0.036 J	0.05 U	0.05 U	0.05 U	*1.68*			0.05 U	0.05 U	0.35	0.136	0.073	0.404	0.262	*1.55*	0.223	0.05 U	0.418	0.18
Biochemical Oxygen Demand		2 U	2 U	2 U	4.6	4.7	2 U	2 U	2 U	6.8			2 U	2 U	*12*	*10.4*	*16.9*	*17.7*	*14.6*	2.5	2.8	2 U	2 U	2
Bromide	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U			1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chemical Oxygen Demand	5 U	9.8	6.6	4.2 J	*32*	13.7	14	9.3	7.7	*24.8*			8.8	4.2 J	*58.9*	*58.9*	*71.6*	*64.3*	*47.7*	14	6.8	5 U	5 U	4.9 J
Chloride	3.5	3.1	2.9	3.6	3.1	2.9	2.5	2.5	3.4	4.3			3	3.9	17.7	14.6	13.4	12.3	12.6	3	2.5	2.4	2.7	3.1
Color (True) (C.U.)		4				**16**	**25**				9					**22**	**19**					**24**	**25**	
Cyanide		0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U				0.01 U	0.01 U		
Hardness	1470	1500	1450	1400	2550	2590	2560	2450	2420	2160	2220	2150	2110	2080	666	674	659	659	658	839	878	847	867	819
Nitrate Nitrogen	0.3 J	0.2 J	1 U	0.3 J	0.6 J	0.7 J	0.6 J	0.5 J	0.6 J	0.5 J			0.3 J	0.4 J	1 U	1 U	1 U	1 U	0.4 J	1 U	1 U	1 U	1 U	0.4 J
pH of Color Analysis		7.5				7.03	7.37				7.06					7.34	7.56				7.54 *	7.42		
Sulfate	**948**	*1190*	*1180*	*1180*	*2010*	*2030*	*2130*	*2680*	*2330*	*1560*			*1890*	*1950*	**550**	**545**	**557**	**556**	**572**	**559**	**656**	**757**	**658**	**703**
Total Dissolved Solids	*2070*	*2060*	*2020*	*2000*	*3700*	*3690*	*3670*	*3590*	*3610*	*3210*			*1540*	*3170*	**1230**	**1160**	**1140**	**1120**	**1110**	**1280**	**1290**	**1270**	**1260**	**1230**
Total Kjeldahl Nitrogen	0.13 J	0.11 J	0.2 U	0.22	1.24	0.57	0.18 J	0.15 J	0.11 J	2.59			0.2 J	0.18 J	0.72	0.65	0.61	0.7	0.44	2.22	0.56	0.2 U	0.6	0.31
Total Organic Carbon (TOC)		1.1	1.1	1 J	4.5	5.6	2.6	2.3	2.1	7.2			1.5	1.1	*24.3*	*18.2*	*23.6*	*22*	*15.9*	3.1	2.2	1.5	1.9	1.6
Total Phenolics		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.0012 J**	**0.0025 J**			0.005 U	0.005 U	*0.0038 J*	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U

Notes:

U - Concentration not detected at specified detection limit
J/UJ/BJ - Estimated value
B - Analyte also detected in associated method blank
*** -** Denotes analysis was performed outside holding time.

100	Parameter exceeds Class GA Std but is below EWQV
100	Parameter exceeds both EWQV (mean) and Class GA Std
100	Parameter exceeds EWQV plus three std deviations
100	Parameter exceeds Class GA and EWQV + three standard deviations

Please see page 4 for notes.

Table 8 Continued

Groundwater Pre-Operational Water Quality Data
and NYSDEC Water Quality Standards
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	Overburden Well Pre-Operational Water Quality Data			Class GA Standard
	Mean	Standard Deviation	Mean +3 Standard Deviations	
Field Parameters				
Field pH (std. units) Lower limit	7.27	0.32	6.31	6.5 - 8.5
Field pH (std. units) Upper limit	NM	NM	NM	NM
ORP (mV)	47.8	131	440	
Specific Conductivity (us/cm)	2004	891	4678	
Turbidity (NTU)	118	215	762	5
Inorganic Compounds				
Aluminum	2.41/10.3	6.73/20.7	22.6/72.5	
Antimony	0.0103/0.0088	0.0066/0.0047	0.0299/0.0228	0.003
Arsenic	0.007/0.008	0.006/0.006	0.023/0.024	0.025
Barium	0.038/0.155	0.035/0.142	0.144/0.582	1
Beryllium	0.0015/0.0015	0.0002/0.0001	0.0021/0.0019	
Boron	0.23/0.279	0.06/0.169	0.39/0.786	1
Cadmium	0.002/0.0024	0.001/0.0005	0.004/0.0039	0.005
Calcium	261/277	140/148	682/722	
Chromium	0.0056/0.0154	0.0111/0.023	0.0388/0.0846	0.05
Chromium, hexavalent	0.006/0.008	0.004/0.005	0.018/0.021	
Cobalt	0.012/0.02	0.006/0.01	0.028/0.05	
Copper	0.01/0.0221	0.008/0.0211	0.035/0.0854	0.2
Iron	3.33/5	7.32/3.65	25.3/16	0.3
Lead	0.003/0.005	0.003/0.0055	0.012/0.0215	0.025
Magnesium	90.3/105	56.5/57.6	260/278	
Manganese	0.88/1.36	0.84/1.5	3.4/5.86	0.3
Mercury	0.0001/0.0001	0/0	0.0001/0.0001	0.0007
Nickel	0.02/0.03	0.014/0.029	0.06/0.116	0.1
Potassium	17.7/19.4	11.2/9.59	51.3/48.2	
Selenium	0.0036/0.0028	0.0048/0.0016	0.018/0.0077	0.01
Silver	0.005/0.005	0.002/0	0.01/0.005	0.05
Sodium	76.7/80.9	41.8/53.1	202/240	20
Thallium	0.004/0.0074	0.002/0.006	0.009/0.0254	
Tin	0.3/0.4	**0.2/0.1**	0.9/0.6	
Vanadium	0.017/0.024	0.01/0.02	0.047/0.083	
Zinc	0.033/0.092	0.041/0.118	0.156/0.445	
Wet Chemistry				
Alkalinity	266	71.5	480	
Ammonia Nitrogen	0.22	0.09	0.49	2
Biochemical Oxygen Demand	2.3	1.8	7.7	
Bromide	0.7	0.4	1.9	
Chemical Oxygen Demand	9.2	3.1	19	
Chloride	5.4	4.78	19.7	250
Color (True) (C.U.)	90	108	413	15
Cyanide	0.005	0.001	0.007	0.2
Hardness	1010	579	2746	
Nitrate Nitrogen	0.24	0.443	1.57	10
Sulfate	1023	947	3864	250
Sulfide	0.14	0.23	0.84	
Total Dissolved Solids	1475	947	4316	500
Total Kjeldahl Nitrogen	0.67	1.2	4.28	
Total Organic Carbon (TOC)	3.7	3	12.7	
Total Phenolics	0.0032	0.0027	0.0115	0.001

Notes:

Pre-operational data from wells MW-14, MW-19, MW-26, MW-31, MW-36A, MW-37, MW-37A, MW-38, MW-38A, MW-39A, MW-40, MW-40A, MW-41A, MW-42A and MW-47A; with the exception of Tin which is the preceeding list of wells plus MW-15, MW-15A, MW-16, MW-17, MW-20, MW-20A, MW-21, MW-21R, MW-21AR, MW-22, MW-23, MW-27, MW-27A, MW-28, MW-28A, MW-29, MW-29A, MW-30, MW-30A, MW-F, MW-G and MW-H.

Table 9

Current and Historic Surface Water Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	DB-1			DB-2	DB-3					East Perimeter Ditch	Class C Standard
	11/15/2018	4/22/2019	11/7/2019	8/20/2018	8/20/2018	11/15/2018	4/22/2019	8/5/2019	11/11/2019	4/22/2019	
Field Parameters											
Dissolved Oxygen	11.96	7.97	8.56			16.02	12	10.08	13.27	11.96	Not < 5
Field pH (std. units)	7.5	7.7	7.68	7.94	7.99	7.58	7.77	7.67	7.51	7.94	6.5 - 8.5
ORP (mV)	159.9	127.7	156.1	79.3	91.7	154.4	126.9	45.6	98.7	123.6	
Specific Conductivity (us/cm)	203.1	219	203.5	347.9	327.8	320.4	278.7	253.2	290.3	235.6	
Temperature (deg. C)	3.6	10.5	6	20.4	20.8	2.8	11.5	21.1	3.3	8.2	
Turbidity (NTU)	201	184	172	71.1	79.8	95.3	183	130	83.4	4.73	
Inorganic Organic											
Aluminum	7.08	10.1				11.9	10.2			0.0933 J	
Antimony	0.06 U	0.06 U				0.06 U	0.06 U			0.06 U	
Arsenic	0.01 U	0.0057 J				0.0082 J	0.0046 J			0.01 U	
Barium	0.0704	0.0956				0.103	0.09			0.021	
Beryllium	0.0003 J	0.0004 J				0.0005 J	0.0004 J			0.003 U	
Boron	0.038 J	0.0356 J				0.0463 J	0.0436 J			0.015 J	1
Cadmium	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Calcium	46.1	29.7	30.6	52.3	50.8	32	40.4	33.9	42.3	35	
Chromium	0.0069 J	0.0105				0.012	0.0104			0.0007 J	
Chromium, hexavalent	0.05 U	0.05 U,*				0.01 U	0.05 U,*			0.01 U,*	
Cobalt	0.0018 J	0.0026 J				0.0034 J	0.0023 J			0.05 U	0.005
Copper	0.0077 J	0.0096 J				0.0155 J	0.0096 J			0.02 U	
Iron	4.8	7.2	8.95	2.98	2.91	9.8	7.02	5.04	4.33	0.0999 J	
Lead	0.0031 J	0.0035 J	0.005 J	0.05 U	0.05 U	**0.0089 J**	0.0036 J	0.05 U	0.05 U	0.05 U	0.008
Magnesium	13.5	7.08	6.4	13.8	11.7	7.34	11.1	9	10.3	8.77	
Manganese	0.187	0.171	0.221	0.176	0.093	0.202	0.138	0.127	0.129	0.0116	
Mercury	0.0002 U	0.0002 U				0.0002 U	0.0002 U			0.0002 U	0.0000007
Nickel	0.04 U	0.04 U				0.04 U	0.04 U			0.04 U	0.0082
Potassium	5.42	5.93	7.6	6.2	5.1	6.82	6.69	4.4	5.7	1.36 J	
Selenium	0.01 U	0.01 U				0.01 U	0.01 U			0.01 U	
Silver	0.01 U	0.01 U				0.01 U	0.01 U			0.01 U	
Sodium	4.79	4.15	3.2	4.1	5.9	3.48	5.74	4	3.8	3.53	
Thallium	0.01 U	0.01 U				0.01 U	0.01 U			0.01 U	0.008
Vanadium	0.0126 J	**0.0176 J**				**0.0216 J**	**0.0173 J**			0.05 U	0.014
Zinc	0.0272	0.0394				0.0621	0.0338			0.02 U	

Please see page 3 for notes.

Table 9

Current and Historic Surface Water Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	DB-1			DB-2	DB-3					East Perimeter Ditch	Class C Standard
	11/15/2018	4/22/2019	11/7/2019	8/20/2018	8/20/2018	11/15/2018	4/22/2019	8/5/2019	11/11/2019	4/22/2019	
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
1,1,1-Trichloroethane	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
1,1,2,2-Tetrachloroethane	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
1,1,2-Trichloroethane	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
1,1-Dichloroethane	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
1,1-Dichloroethene	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
1,2,3-Trichloropropane	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
1,2-Dibromo-3-chloropropane	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
1,2-Dibromoethane	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
1,2-Dichlorobenzene	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
1,2-Dichloroethane	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
1,2-Dichloropropane	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
1,4-Dichlorobenzene	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
2-Butanone (MEK)	0.00079 J	0.01 U				0.01 U	0.01 U			0.01 U	
2-Hexanone	0.01 U	0.01 U				0.01 U	0.01 U			0.01 U	
4-Methyl-2-pentanone	0.01 U	0.01 U				0.01 U	0.01 U			0.01 U	
Acetone	0.01 U	0.01 U				0.01 U	0.0021 J			0.01 U	
Acrylonitrile	0.1 U	0.1 U				0.1 U	0.1 U			0.1 U	
Benzene	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
Bromochloromethane	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
Bromodichloromethane	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
Bromoform	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
Bromomethane	0.005 UJ	0.005 U				0.005 UJ	0.005 U			0.005 U	
Carbon disulfide	0.01 U	0.01 U				0.01 U	0.01 U			0.01 U	
Carbon tetrachloride	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
Chlorobenzene	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	0.005
Chloroethane	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
Chloroform	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
Chloromethane	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
cis-1,2-Dichloroethene	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
cis-1,3-Dichloropropene	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
Dibromochloromethane	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
Dibromomethane	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	

Please see page 3 for notes.

Table 9

Current and Historic Surface Water Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	DB-1			DB-2	DB-3					East Perimeter Ditch	Class C Standard
	11/15/2018	4/22/2019	11/7/2019	8/20/2018	8/20/2018	11/15/2018	4/22/2019	8/5/2019	11/11/2019	4/22/2019	
Volatile Organic Compounds (con't)											
Dichloromethane (Methylene chloride)	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	0.2
Ethyl benzene	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
Iodomethane	0.01 UJ	0.01 UJ				0.01 UJ	0.01 UJ			0.01 UJ	
m&p-Xylene	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
o-Xylene	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
Styrene	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
Tetrachloroethene	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
Toluene	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	6
trans-1,2-Dichloroethene	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
trans-1,3-Dichloropropene	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
trans-1,4-Dichloro-2-butene	0.005 U	0.005 UJ				0.005 U	0.005 UJ			0.005 UJ	
Trichloroethene	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	0.04
Trichlorofluoromethane	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
Vinyl acetate	0.01 U	0.01 U				0.01 U	0.01 U			0.01 U	
Vinyl chloride	0.005 U	0.005 U				0.005 U	0.005 U			0.005 U	
General Chemistry											
Alkalinity	104	76.4	76.4	109	91.2	78.8	88.8	72.8	92	112	
Ammonia Nitrogen	0.041 J	0.04 J	0.17	0.044 J	0.05 U	0.05 U	0.05 U	0.05 U	0.107	0.05 U	2
Biochemical Oxygen Demand	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	
Bromide	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Chemical Oxygen Demand	9.5	24.8	9.8	17.2	5.8	9.8 J	15.9	5 U	11.5	20.3	
Chloride	3.7	4.9	4.9	4.5	7.4	4.5	6.7	5.2	4.9	1.2 J	
Color (True) (C.U.)	290	140				165	125			17	
Cyanide	0.01 U	0.01 U				0.01 U	0.01 U			0.01 U	9
Hardness	171	103	103	188	175	110	147	122	148	124	
Nitrate Nitrogen	1 U	1 U	0.6 J	0.4 J	0.4 J	0.4 J	1 U	1 U	0.7 J	1 U	
pH of Color Analysis	7.39 *	7.53 *				6.83 *	7.83 *			7.76 *	
Sulfate	18.6	18.7	18.7	76.3	75.4	55.4	44.8 J	47.3	55.6	14.3	
Total Dissolved Solids	17.3 B	188	203	261	241	208	248	199	227	152	500
Total Kjeldahl Nitrogen	0.73	0.62	0.77	0.87	0.53	0.55	0.55	0.31	0.62	0.2 U	
Total Organic Carbon (TOC)	2.3	3	2.8	7.1	4.3	2.1	3.3	2.6	3.2	1	
Total Phenolics	0.005 U	0.005 U	0.005 U	0.0043 J	0.0026 J	0.005 U	0.005 U	0.005 U	0.0016 J	0.005 U	

Notes:

Class C Standard - NYSDEC Class C Surface Water Standard

Concentrations in **bold** exceed Class C Standards

U - Concentration not detected at specified detection limit

J/UJ - Estimated value

B - Analyte detected in associated method blank

*** -** Analysis performed out of hold time

Please see page 3 for notes.

Table 10

Current and Historic Sediment Analytical Results
Hyland Facility
Angelica, New York
(mg/kg except where noted)

Parameter	East Perimeter Ditch 4/25/2019
Inorganic Compounds	
Aluminum	13700 J
Antimony	14.3 UJ
Arsenic	14.5 J
Barium	171 J
Beryllium	0.764 J
Boron	24.1 J
Cadmium	0.74 J
Calcium	10600 J
Chromium	28.7 J
Chromium, hexavalent	1 UJ
Cobalt	13.9 J
Copper	52.4 J
Iron	33900 J
Lead	41.5 J
Magnesium	7440 J
Manganese	1040 J
Mercury	0.081 J
Nickel	30.1 J
Potassium	2930 J
Selenium	2.4 UJ
Silver	2.4 UJ
Sodium	140 J
Thallium	2.4 UJ
Vanadium	29 J
Zinc	194 J
Volatile Organic Compounds	
1,1,1,2-Tetrachloroethane	0.013 UJ
1,1,1-Trichloroethane	0.013 UJ
1,1,2,2-Tetrachloroethane	0.013 UJ
1,1,2-Trichloroethane	0.013 UJ
1,1-Dichloroethane	0.013 UJ
1,1-Dichloroethene	0.013 UJ
1,2,3-Trichloropropane	0.013 UJ
1,2-Dibromo-3-chloropropane	0.013 UJ
1,2-Dibromoethane	0.013 UJ
1,2-Dichlorobenzene	0.013 UJ
1,2-Dichloroethane	0.013 UJ
1,2-Dichloropropane	0.013 UJ
1,4-Dichlorobenzene	0.013 UJ
2-Butanone (MEK)	0.044 J-
2-Hexanone	0.013 UJ
4-Methyl-2-pentanone	0.00072 J
Acetone	0.14 J-
Acrylonitrile	0.063 UJ
Benzene	0.013 UJ

Please see page 2 for notes.

Table 10

Current and Historic Sediment Analytical Results
Hyland Facility
Angelica, New York
(mg/kg except where noted)

Parameter	East Perimeter Ditch 4/25/2019
Volatile Organic Compounds (con't)	
Bromochloromethane	0.013 UJ
Bromodichloromethane	0.013 UJ
Bromoform	0.013 UJ
Bromomethane	0.013 UJ
Carbon disulfide	0.0026 J
Carbon tetrachloride	0.013 UJ
Chlorobenzene	0.013 UJ
Chloroethane	0.013 UJ
Chloroform	0.013 UJ
Chloromethane	0.013 UJ
cis-1,2-Dichloroethene	0.013 UJ
cis-1,3-Dichloropropene	0.013 UJ
Dibromochloromethane	0.013 UJ
Dibromomethane	0.013 UJ
Dichloromethane (Methylene chloride)	0.013 UJ
Ethyl benzene	0.013 UJ
Iodomethane	0.025 UJ
m&p-Xylene	0.025 UJ
o-Xylene	0.013 UJ
Styrene	0.013 UJ
Tetrachloroethene	0.013 UJ
Toluene	0.47
trans-1,2-Dichloroethene	0.013 UJ
trans-1,3-Dichloropropene	0.013 UJ
trans-1,4-Dichloro-2-butene	0.013 UJ
Trichloroethene	0.013 UJ
Trichlorofluoromethane	0.013 UJ
Vinyl acetate	0.025 UJ
Vinyl chloride	0.013 UJ
Wet Chemistry	
Alkalinity	2000
Ammonia Nitrogen	161
Bromide	24 U
Chemical Oxygen Demand	188000
Chloride	72 U
Cyanide	0.48 UJ
Nitrate Nitrogen	24 U
pH, Laboratory (Std. Units)	6.99 H
Sulfate	42 J
Total Kjeldahl Nitrogen	2510
Total Organic Carbon (TOC)	74500
Total Phenolics	0.96
Total Solids	39.5

Notes:
U - Concentration not detected at specified detection limit
J/UJ - Estimated value
H - Analysis performed out of "immediate" hold time criteria.

Please see page 2 for notes.

Table 11

Current and Historic Groundwater Supression System Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	GSS-1					GSS-2 E/F					GSS-2 G/H					GSS-3					GSS-4	GSS-5			Class GA Standard
	11/14/2018	2/5/2019	4/22/2019	8/1/2019	11/5/2019	11/14/2018	2/5/2019	4/25/2019	8/5/2019	11/5/2019	11/14/2018	2/5/2019	4/22/2019	8/1/2019	11/5/2019	11/13/2018	2/4/2019	4/22/2019	8/1/2019	11/4/2019	2/4/2019	8/1/2019	11/12/2018	11/4/2019	
Field Parameters																									
Field pH (std. units)	7.28	7.13	6.95	6.92	7.03	7.41	7.19	7.13	7.08	7.16	7.08	6.96	6.9	6.76	6.84	6.75	6.95	6.89	6.93	6.91	6.75	7.35	7.23	7.43	6.5 - 8.5
ORP (mV)	23.1	145.5	144.5	103.4	111.3	103.4	-44.5	110.9	19.9	55.1	47.1	46.3	144.4	38.9	-18.5	62.5	1.3	7.3	-21.2	28.6	-14.7	76.2	86.9	107.6	
Specific Conductivity (us/cm)	377.2	235.1	145.8	211.3	378.5	650	617	658	698	608	1455	1230	1397	1345	1297	724	693	717	713	670	1493	421.9	1933	469.5	
Temperature (deg. C)	20.1	21.6	21.2	26.7	22.4	17.6	25.5	27.7	28.9	24.5	22.6	19.9	20.9	21.8	20.4	15.3	17.4	17.2	21.6	16.2	9.1	19.4	6.8	16	
Turbidity (NTU)	**22.6**	**36.2**	**16**	**14.6**	**21**	1.89	0.94	1.39	1.26	0.69	3.32	1.97	4.93	**9.16**	**7.68**	**6.11**	0.42	1.66	0.52	0.47	1.37	2.67	0.97	3.68	5
Inorganic Compounds																									
Aluminum	0.711		0.414			0.1 U	0.1 U	0.035 J	0.0371 J	0.0417 J	0.0693 J		0.0548 J			0.189	0.1 U	0.0306 J	0.0254 J	0.031 J			0.1 U		
Antimony	0.06 U		0.06 U			0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U		0.06 U			0.06 U	0.06 U	0.06 U	0.06 U	0.06 U			**0.0069 J**		0.003
Arsenic	0.004 J		0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U			0.0208	0.0244	0.0206	0.0156	0.0174			0.01 U		0.025
Barium	0.0601		0.0355			0.0497	0.0631	0.0742	0.0757	0.0601	0.0248		0.0146 J			0.077	0.079	0.0786	0.0739	0.0833			0.0255		1
Beryllium	0.003 U		0.003 U			0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U		0.003 U			0.003 U	0.003 U	0.003 U	0.003 U	0.003 U			0.003 U		
Boron	0.0348 J		0.2 U			0.0596 J	0.0501 J	0.0469 J	0.0458 J	0.0535 J	0.231		0.233			0.106 J	0.109 J	0.103 J	0.0953 J	0.0912 J			0.107 J		1
Cadmium	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005
Calcium	57.8	34.6	20.6	28.2	54.8	103	102	104	107	83.9	228	192	212	200	177	104	108	105	98.3	94.5	229	64.8	307	66.5	
Chromium	0.01 U		0.0011 J			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U		0.0008 J			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U			0.01 U		0.05
Chromium, hexavalent	0.01 U		0.01 U,*			0.01 U	0.01 U,*	0.01 U,*	0.01 U,*	0.01 U,*	0.01 U		0.01 U,*			0.01 UJ	0.01 U,*	0.01 UJ	0.01 U,*	0.01 U,*			0.01 U		
Cobalt	0.05 U		0.05 U			0.05 U	0.05 U	0.05 U	0.0009 J	0.05 U	0.05 U		0.05 U			0.05 U	0.05 U	0.05 U	0.05 U	0.05 U			0.0028 J		
Copper	0.109		0.19			0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U		0.0075 J			0.02 U	0.02 U	0.02 U	0.02 U	0.02 U			0.02 U		0.2
Iron	**2.1**	**1.92**	**0.47**	**0.78**	**0.79**	0.112	0.0625 J	0.0873 J	0.0901 J	0.109	**0.302**	0.2	0.169	**0.55**	**2.43**	**0.393**	0.276	**0.303**	0.272	0.278	**6.7**	0.09 J	0.147	0.14	0.3
Lead	0.0027 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.025
Magnesium	12	8	4.44	5.7	10.5	28.1	27.8	29.1	30.3	23.7	90.8	77.1	88.8	78.4	83.2	38.3	39	38.1	36.1	34.7	88.6	21.4	142	22	
Manganese	**0.569**	0.036	0.0504	0.172	0.025	0.151	**0.512**	**0.755**	**0.826**	**0.796**	**0.902**	**0.554**	**1.24**	**0.854**	**0.979**	**0.988**	**1.04**	**1.02**	**0.972**	**0.919**	**4.09**	0.159	**3.17**	0.178	0.3
Mercury	0.0002 U		0.0002 U			0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U		0.0002 U			0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U			0.0002 U		0.0007
Nickel	0.04 U		0.04 U			0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U		0.04 U			0.04 U	0.04 U	0.04 U	0.04 U	0.04 U			0.04 U		0.1
Potassium	3.39	2.7 B	1.73 J	1.9 BJ	3.3	3.9	3.63	3.34	3.6	3.36	8.58	7.7	8.43	7.6	8	6.17	6.13	5.98	5.83	5.65	12.3	2.8	10.5	2.8	
Selenium	0.01 U		0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U			0.01 U		0.01
Silver	0.01 U		0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U			0.01 U		0.05
Sodium	4.25	2.4	1.72	2.2	5.8	8.68	7.09	7.36	7.22	7.39	**25.6**	**20.9**	**23.9**	**21.1**	**23.3**	12.7	11.9	11.7	11	10.7	**37.4**	8.9	**41.7**	9.3	20
Thallium	0.01 U		0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U		0.0071 J			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U			0.0083 J		
Vanadium	0.05 U		0.05 U			0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U		0.05 U			0.05 U	0.05 U	0.05 U	0.05 U	0.05 U			0.05 U		
Zinc	0.026		0.0454			0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0157 J		0.0187 J			0.02 U	0.02 U	0.02 U	0.02 U	0.02 U			0.02 U		
Volatile Organic Compounds																									
1,1,1,2-Tetrachloroethane	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
1,1,1-Trichloroethane	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
1,1,2,2-Tetrachloroethane	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
1,1,2-Trichloroethane	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.001
1,1-Dichloroethane	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
1,1-Dichloroethene	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
1,2,3-Trichloropropane	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.00004
1,2-Dibromo-3-chloropropane	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.00004
1,2-Dibromoethane	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
1,2-Dichlorobenzene	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.003
1,2-Dichloroethane	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.0006
1,2-Dichloropropane	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.001
1,4-Dichlorobenzene	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.003
2-Butanone (MEK)	0.01 U		0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.0018 J			0.01 U		0.005
2-Hexanone	0.01 U		0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U			0.01 U		0.005
4-Methyl-2-pentanone	0.01 U		0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.00049 J	0.01 U		0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.00046 J			0.01 U		0.005

Please see page 2 for notes

Table 11

Current and Historic Groundwater Supression System Analytical Results
Hyland Facility
Angelica, New York
(mg/L except where noted)

Parameter	GSS-1					GSS-2 E/F					GSS-2 G/H					GSS-3					GSS-4	GSS-5			Class GA
	11/14/2018	2/5/2019	4/22/2019	8/1/2019	11/5/2019	11/14/2018	2/5/2019	4/25/2019	8/5/2019	11/5/2019	11/14/2018	2/5/2019	4/22/2019	8/1/2019	11/5/2019	11/13/2018	2/4/2019	4/22/2019	8/1/2019	11/4/2019	2/4/2019	8/1/2019	11/12/2018	11/4/2019	Standard
Volatile Organic Compounds (con't)																									
Acetone	0.01 U		0.01 U			0.01 U	0.01 U	0.01 U	**0.0085 BJ**	**0.0051 BJ**	0.01 U		0.01 U			0.0024 J	0.01 U	0.01 U	**0.0066 J**	**0.0052 BJ**			0.0027 J		0.005
Acrylonitrile	0.1 U		0.1 U			0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U			0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			0.1 U		0.005
Benzene	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.001
Bromochloromethane	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
Bromodichloromethane	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
Bromoform	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
Bromomethane	0.005 UJ		0.005 U			0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ		0.005 U			0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U			0.005 UJ		0.005
Carbon disulfide	0.01 U		0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U			0.01 U		0.005
Carbon tetrachloride	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
Chlorobenzene	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
Chloroethane	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
Chloroform	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.007
Chloromethane	0.005 U		0.005 U			0.005 U	0.00031 J	0.005 U	0.005 U	0.0003 J	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.00033 BJ			0.005 U		0.005
cis-1,2-Dichloroethene	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
cis-1,3-Dichloropropene	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.0004
Dibromochloromethane	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
Dibromomethane	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
Dichloromethane (Methylene chloride)	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
Ethyl benzene	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
Iodomethane	0.01 U		0.01 UJ			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U		0.01 UJ			0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U			0.01 U		0.005
m&p-Xylene	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
o-Xylene	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
Styrene	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
Tetrachloroethene	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
Toluene	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
trans-1,2-Dichloroethene	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
trans-1,3-Dichloropropene	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.0004
trans-1,4-Dichloro-2-butene	0.005 UJ		0.005 UJ			0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ		0.005 UJ			0.005 UJ	0.005 U	0.005 UJ	0.005 U	0.005 U			0.005 UJ		0.005
Trichloroethene	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
Trichlorofluoromethane	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.005
Vinyl acetate	0.01 U		0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U			0.01 U		0.005
Vinyl chloride	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U			0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.005 U		0.002
General Chemistry																									
Alkalinity	147	92.4	56.8	83.2	146	258	242	251	260	224	417	377	408	364	340	280	286	284	270	270	398	211	200	208	
Ammonia Nitrogen	0.145	0.05 U	0.05 U	0.021 J	0.05 U	0.05 U	0.05 U	0.057	0.053	0.063	0.355	0.179	0.299	0.087	0.246	0.055	0.095	0.122	0.069	0.08	0.155	0.05 U	0.038 J	0.05 U	2
Biochemical Oxygen Demand	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2.4	2 U	2 U	2 U	2 U	2 U	2 U	
Bromide	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Chemical Oxygen Demand	11.8	9.1	16.2	7.1	11.5	6.8	8.8	8.5	5 U	5 U	8.1	12.7	21.8 J	4.6 J	10.5	5.8 J	12.1	15	5 U	5 U	10.1	5 U	8.5	5 U	
Chloride	3.4	2	2 J	2.3	9.1	5.1	3.5	4.2	7	5.8	6.4	6.1	5.9	5.9	7.6	5.1	4.9	4.6	4.8	5.7	10.7	14.3	5.1	13.6	250
Color (True) (C.U.)	**45**		**18**			**18**	7	12	15	15	**18**		15			10	7	14	15	7			10		15
Cyanide	0.01 U		0.01 U			0.01 U	0.01 U	0.01 U	0.005 U	0.005 U	0.01 U		0.01 U			0.01 U	0.01 U	0.01 U	0.005 U	0.005 U			0.01 U		0.2
Hardness	194	119	69.7	94	180	373	369	379	391	307	943	796	894	822	784	418	430	420	394	379	935	250	1350	257	
Nitrate Nitrogen	1 U	1 U	0.2 J	1 U	0.5 J	0.4 J	1 U	1 U	1 U	1 U	1.2	0.5 J	0.4 J	1.3	1.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10
pH of Color Analysis	7.69 *		7.23 *			7.88 *	7.61	7.84 *	7.66	7.63 *	7.64 *		7.61 *			6.94	7.08	7.46 *	8 *	7.36 *			7.35		
Sulfate	39.8	25.8	11.9	12.5	36	94.3	110	121	130	87.7	**493**	**407**	**510**	**438**	**494**	124	139	129	121	127	**550**	37.6	**1010**	38.2	250
Total Dissolved Solids	224	148	92	134	243	423	428	450	**508**	390	**1210**	**1030**	**1180 J**	**1080**	**1090**	496	**522**	**503**	499	476	**1280**	310	**1860**	313	500
Total Kjeldahl Nitrogen	0.51	0.19 J	0.16 J	0.28	0.1 J	0.13 J	0.14 J	0.13 J	0.22	0.15 J	0.72	0.43	0.54	0.33	0.4	0.23	0.24	0.2 J	0.26	0.15 J	0.29	0.2 U	0.29	0.2 U	
Total Organic Carbon (TOC)	3.7	2.7	1.8	3	2.5	2.1	2.3	2.3	2.7	1.8	2.3	3.1	2.8	2.6	2.8	2.4	2	1.6	1.5	1.3	2	1 U	3.2	1 U	
Total Phenolics	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 J	0.005 U	0.005 U	0.005 U	0.005 U	**0.0013 BJ**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001

Notes:

Class GA Standard - NYSDEC Class GA Groundwater Standard

Concentrations in **bold** exceed Class GA Standards

U - Concentration not detected at specified detection limit

B - Analyte detected in associated method blank

J/UJ/BJ - Estimated value

***** - Denotes analysis was performed outside holding time.

Please see page 2 for notes

Table 12

2019 Residential Water Supply Analytical Results
Hyland Facility
Angelica, New York
(mg/L where noted)

Parameter	Goodliff Trailer Well 11/11/2019	Goodliff House Spring 11/11/2019	Gordon Camp 2 11/12/2019	H Gordon House 11/11/2019	Hutchison House 11/11/2019	Shay House Post Filter 11/12/2019	Shay Spring 11/12/2019	Swineford House 11/12/2019	Class GA Standard
Field Parameters									
Field pH (std. units)	8.1	7.46	7.44	7.46	8.11	6.58	7.15	6.8	8.5
ORP (mV)	116.3	150.1	-77	122.2	-52.4	208.5	161.4	231.2	
Specific Conductivity (us/cm)	325.8	647.6	574.5	496.8	1088	513.8	494.5	212.9	
Temperature (deg. C)	10.5	6.2	12.6	10.3	10	19.3	10.9	11.7	
Turbidity (NTU)	**15.2**	0.6	1.03	0.23	3.45	0.22	0.23	0.32	5
Inorganic Compounds									
Cadmium	0.0006 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005
Calcium	9.6	89.6	78.2	76.1	19.1	1 U	57.5	24.5	
Iron	**1.86**	0.11 B	**2.36**	0.1 U	**1.41**	0.02 BJ	0.02 BJ	0.03 BJ	0.3
Lead	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.025
Magnesium	20.9	29.5	26	20.3	6.4	0.03 J	14.7	6.3	
Manganese	0.014	0.145	0.157	0.01 U	0.08	0.01 U	0.01 U	0.006 J	0.3
Potassium	3.4	2.1	2.1	2.7	1.2 J	0.3 J	1.7 J	5.3	
Sodium	**39.8**	**32.5**	**22.3**	10.6	**248**	**116**	**23.4**	5.9	20
General Chemistry									
Alkalinity	186	251	270	237	344	127	121	68.4	
Ammonia Nitrogen	0.217	0.05 U	0.102	0.004 J	0.221	0.05 U	0.05 U	0.05 U	2
Biochemical Oxygen Demand	2.1	2 U	2 U	2 U	2 U	2 U	2 U	2 U	
Bromide	1 U	1 U	1 U	1 U	2.2	1 U	1 U	1 U	
Chemical Oxygen Demand	10.8	9.5	5 U	4.9 J	4.6 J	5 U	5 U	5 U	
Chloride	3.3	3.6	2.3	3.5	171	85.9	85.1	6.8	250
Hardness	110	345	302	273	74.3	6.62 U	204	87.1	
Nitrate Nitrogen	0.4 J	0.4 J	1 U	1 U	1 U	0.4 J	0.4 J	2	10
Sulfate	2 U	136	60.3	47.6	23.1	18.2	18	20.3	250
Total Dissolved Solids	198	486	372	329	**711**	330	294	136	500
Total Kjeldahl Nitrogen	0.38	0.2 U	0.2 U	0.17 J	0.28	0.2 U	0.14 J	0.14 J	
Total Organic Carbon (TOC)	1.6	1.2	1 U	1 U	0.6 J	1 U	1 U	0.5 J	
Total Phenolics	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001

Notes:
Class GA Standard - NYSDEC Class GA Groundwater Standard
Concentrations in **bold** exceed Class GA Standards
U - Concentration not detected at specified detection limit
J - Estimated value

Table 13

Fourth Quarter 2019 Field Duplicate Sample Comparison
Hyland Facility
Angelica, New York
(mg/L)

Parameter	MW34-1119	DUP1-1119
Inorganic Compounds		
Cadmium	0.005 U	0.005 U
Calcium	49.4	48.4
Iron	0.2	0.19
Lead	0.05 U	0.05 U
Magnesium	14.7	14.5
Manganese	0.137	0.135
Potassium	1.3 J	1.3 J
Sodium	75.4	74
General Chemistry		
Alkalinity	236	236
Ammonia Nitrogen	0.318	0.32
Biochemical Oxygen Demand	2 U	2 U
Bromide	1 U	1 U
Chemical Oxygen Demand	5 U	5 U
Chloride	21.3	21.7
Hardness	184	180
Nitrate Nitrogen	1 U	1 U
Sulfate	64.8	65.9
Total Dissolved Solids	384	387
Total Kjeldahl Nitrogen	0.29	0.4
Total Organic Carbon (TOC)	1 U	1 U
Total Phenolics	0.0014 J	0.0013 J

Notes:
U - Concentration not detected at specified detection limit
J/BJ - Estimated value

Table 14

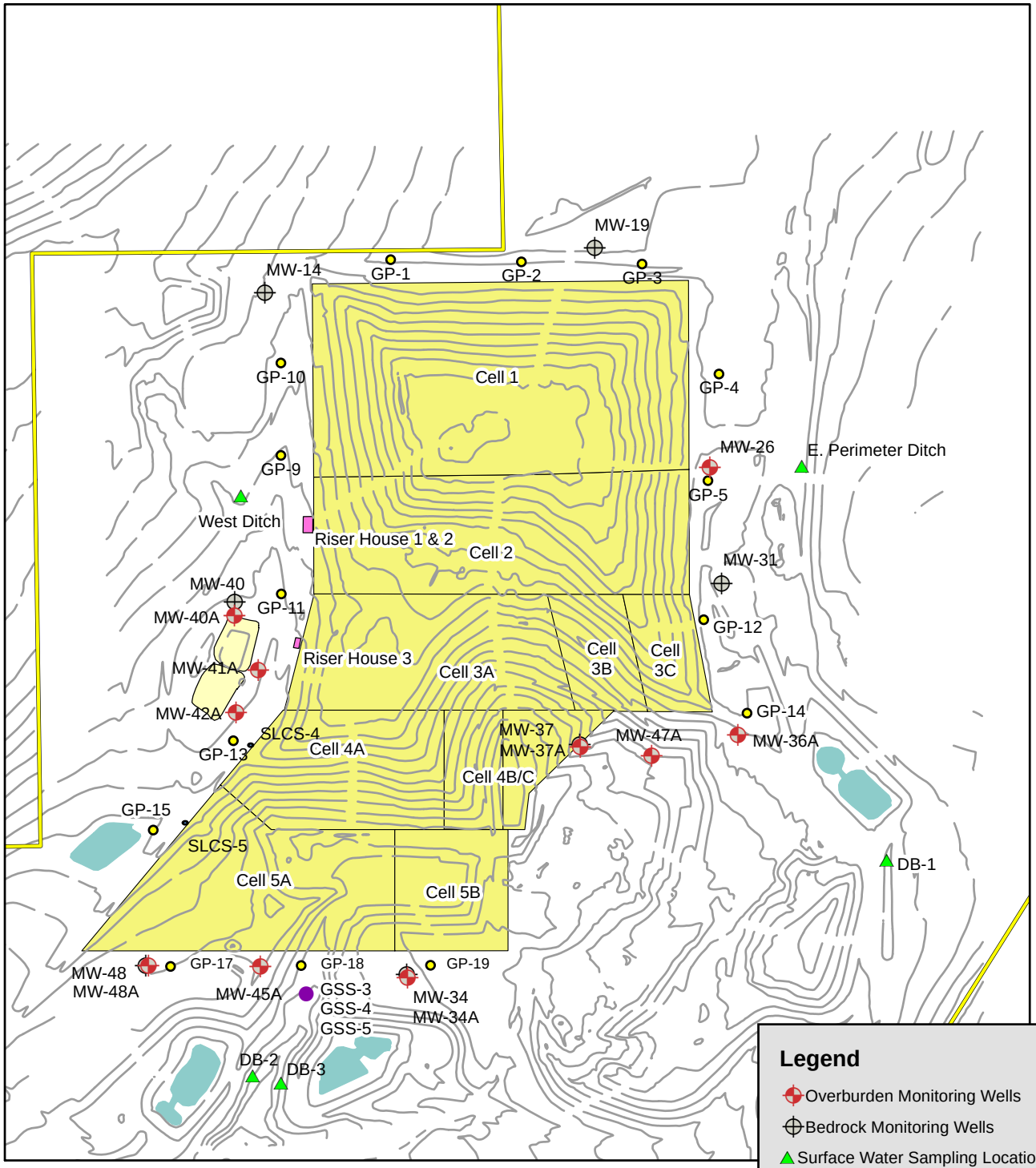
Fourth Quarter 2019 Equipment Blank Analytical Results
Hyland Facility
Angelica, New York
(mg/L)

Parameter	EB1-1119
Inorganic Compounds	
Cadmium	0.005 U
Calcium	1 U
Iron	0.02 BJ
Lead	0.05 U
Magnesium	1 U
Manganese	0.01 U
Potassium	2 U
Sodium	1 U
General Chemistry	
Alkalinity	2.4
Ammonia Nitrogen	0.05 U
Biochemical Oxygen Demand	2 U
Bromide	1 U
Chemical Oxygen Demand	4.2 J
Chloride	2 U
Hardness	6.62 U
Nitrate Nitrogen	1 U
Sulfate	2 U
Total Dissolved Solids	9 J
Total Kjeldahl Nitrogen	0.71
Total Organic Carbon (TOC)	1 U
Total Phenolics	0.005 U

Notes:
U - Concentration not detected at specified detection limit.
J/BJ - Estimated value

Figures

ENVIRONMENTAL MONITORING LOCATIONS



November 2014 Topographic Map
Riser House 1&2 includes sampling points for Cells 1&2 GSS & SLCS.
Riser House 3 includes sampling points for Cell 3 SLCS.

500 250 0 500
Feet
1 inch = 500 feet

Legend

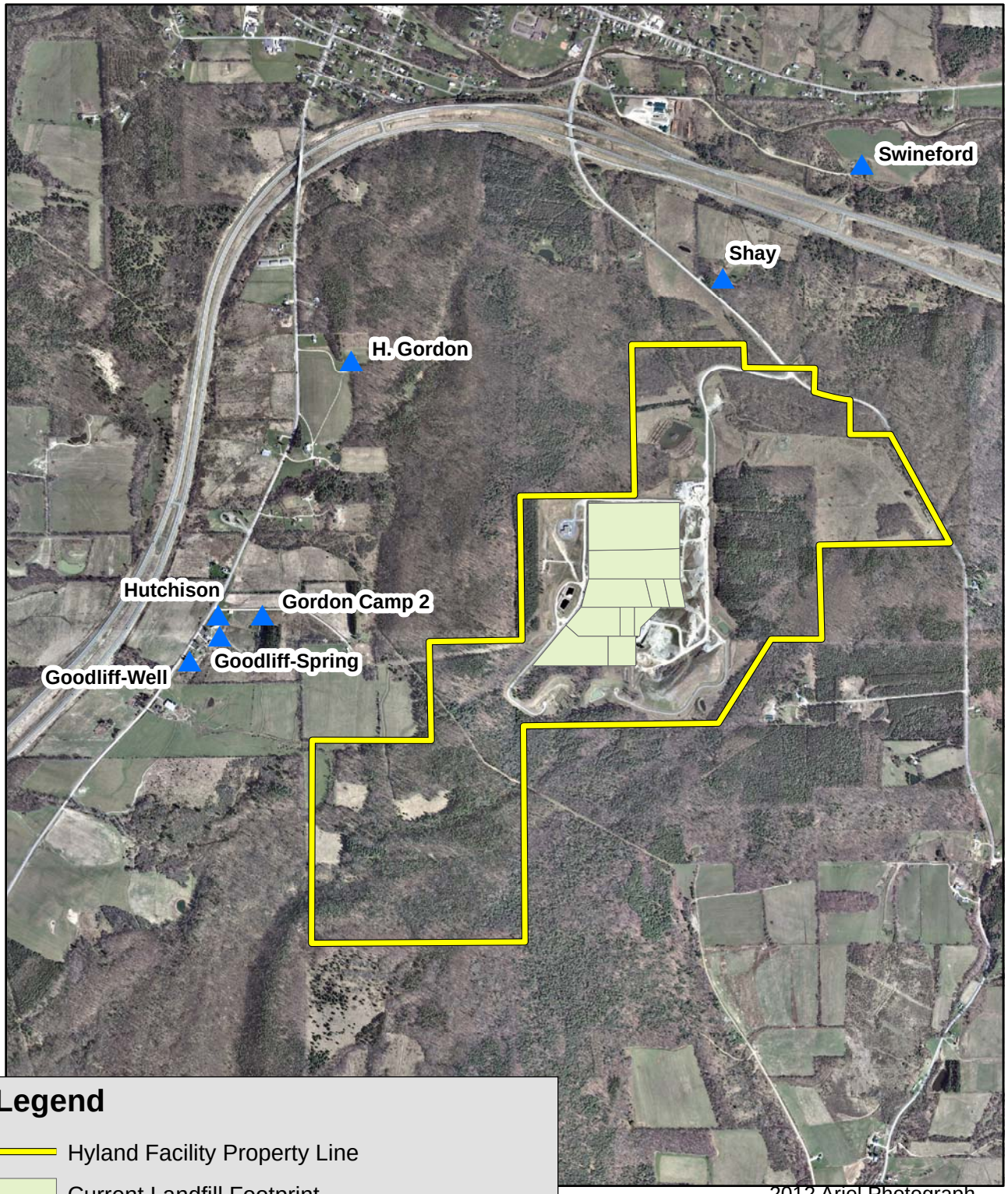
- Overburden Monitoring Wells
- Bedrock Monitoring Wells
- Surface Water Sampling Locations
- Gas Probes
- Hyland Facility Property Line
- Surface Water Detention Basins
- Riser House
- Leachate Ponds
- Existing Landfill Cells

ON-SITE GEOLOGICAL SERVICES, D.P.C.
72 Railroad Avenue Wellsville, NY 14895

FIGURE NO.	1
PROJECT	Hyland Facility
DOCUMENT	Monitoring Report
FILE / DATE	Samploc.mxd / 02.18.20

N:\CASELLA\HYLAND\GIS\SAMPLOC_2019.MXD

2019 RESIDENTIAL WATER SUPPLY SAMPLING LOCATIONS



Legend

- Hyland Facility Property Line
- Current Landfill Footprint
- Approximate Residential Water Supply Location

2012 Ariel Photograph

2,000 1,000 0 2,000 Feet

1 inch = 2,000 feet

ON-SITE GEOLOGICAL SERVICES, D.P.C.
72 Railroad Avenue Wellsville, NY 14895

FIGURE NO.	2
PROJECT	Hyland Facility
DOCUMENT	2019 4Q REPORT
FILE NO.	RES_LOC_2019.MXD

N:\CASELLA\HYLAND\GIS\RES_LOC 2019.MXD

Appendix A

Field Forms

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-4-19

Monitoring Well: MW-14 **Sample ID:** MW14-1119 **Arrival Time:** 1447

Weather Conditions

Temp. 48° F ( )Sunny (X)Partly Cloudy ( )Cloudy ( )Light Rain ( )Hvy. Rain ( )Snow

Wind Conditions: 0-15 mph

Well Condition Checklist

Bump posts: NA Pro. casing/lock: ok Surface pad: ok

Well Visibility (paint): ok Well Label: ok Comment:

Depth & Purging Information

TD: 41.50 ft – SWL: 38.50 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 0.4 gals

Start Purge: 1450 Purging Method: ( ) Bail ( ) Peristaltic ( ) Dedicated Bladder ( ) Non-Dedicated Bladder # _____

Pumping Rate: NA Start Sampling: 0845 Purge Duration: 5 min Purge Vol: 0.5 gals.

Field Parameters

Meters: YSI (sn: 17D10827), Hach 2100P (sn: 12410) Measured in: ( ) Flow Cell (X) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
0.5	1455	Bailed	to Bottom					
11/5	0845	7.61	311.1	1.80	NA	9.9	144.4	

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bailer Sample clarity\color: Clear No Color

Sample Odor: (Y) or (N) Explain: Other Observations/Comments:

Analysis Requested: Routine Number of Containers: 6

Well Sampling Completion: Time 0858 Date 11-5-19 Samplers K Dye

MS/MSD

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-6-19

Monitoring Well: MW-19 **Sample ID:** MW19-1119 **Arrival Time:** 0758

Weather Conditions

Temp. 32° F (X) Sunny ( ) Partly Cloudy ( ) Cloudy ( ) Light Rain ( ) Hvy. Rain ( ) Snow

Wind Conditions: 0-5 mph

Well Condition Checklist

Bump posts: NA Pro. casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment:

Depth & Purging Information

TD: 52.68 ft – SWL: 44.84 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 1.2 gals

Start Purge: 0810 Purging Method: ( ) Bail ( ) Peristaltic ( ) Dedicated Bladder (X) Non-Dedicated Bladder # 3

Pumping Rate: 500ml/205 sec Start Sampling: 0905 Purge Duration: 55min Purge Vol: 1.75 gals.

Field Parameters

Meters: YSI (sn: 17D108273), Hach 2100P (sn: 12410) Measured in: (X) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
~~.8~~	0845	6.70	503.2	9.68	7.01	6.4	107.4	44.85 Top of outer casing
~~1.0~~	0850	6.70	501.5	8.72	6.94	6.8	107.2	44.85
~~1.3~~	0855	6.72	503.1	7.33	7.11	6.6	110.8	44.86
~~1.5~~	0900	6.73	500.9	7.57	7.22	6.1	112.0	44.85
1.75	0905	6.73	501.0	6.23	7.18	6.3	113.7	44.87

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity\color: clear No color

Sample Odor: (Y) or (N) Explain: Other Observations/Comments:

Analysis Requested: Routine Number of Containers: 12

Well Sampling Completion: Time 0950 Date 11-6-19 Samplers K Dye

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-4-19

Monitoring Well: MW-26 **Sample ID:** MW26-1119 **Arrival Time:** 1423

Weather Conditions

Temp. 48° F ( )Sunny (X)Partly Cloudy ( )Cloudy ( )Light Rain ( )Hvy. Rain ( )Snow

Wind Conditions: 0-5mph

Well Condition Checklist

Bump posts: NA Pro. casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment:

Depth & Purging Information

TD: 18.50 ft – SWL: 13.00 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 0.8 gals

Start Purge: 1425 Purging Method: (X) Bail ( ) Peristaltic ( ) Dedicated Bladder ( ) Non-Dedicated Bladder # _____

Pumping Rate: NA Start Sampling: 0810 Purge Duration: 6 min Purge Vol: 1.0 gals.

Field Parameters

Meters: YSI (sn: 17D1082Z3), Hach 2100P (sn: 12410) Measured in: ( ) Flow Cell (X) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
1.0	1431	Bailed to Bottom						
1/5	0810	6.48	1138	3.68	NA	13.1	178.3	

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bailer Sample clarity\color: Clear No Color

Sample Odor: (Y) or (N) Explain: Other Observations/Comments:

Analysis Requested: Routine Number of Containers: 6

Well Sampling Completion: Time 0824 Date 11-5-19 Samplers KDyE

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-7-19

Monitoring Well: MW-31 **Sample ID:** MW31-1119 **Arrival Time:** 0905

Weather Conditions

Temp. 39 ° F ( )Sunny ( )Partly Cloudy (X)Cloudy (X)Light Rain ( )Hvy. Rain ( )Snow

Wind Conditions: 0-10 mph

Well Condition Checklist

Bump posts: NA Pro. casing/lock: ok Surface pad: ok

Well Visibility (paint): ok Well Label: ok Comment:

Depth & Purging Information

TD: 25.35 ft – SWL: 13.81 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 1.8 gals

Start Purge: 0915 Purging Method: ( ) Bail ( ) Peristaltic ( ) Dedicated Bladder (X) Non-Dedicated Bladder # 3

Pumping Rate: 500ml/147 sec Start Sampling: 1010 Purge Duration: 55min Purge Vol: 2.4 gals.

Field Parameters

Meters: YSI (sn: 17D108223 Hach 2100P (sn: 12410) Measured in: (X) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
1.3	0945	6.14	405.9	1.24	6.08	6.0	183.0	15.49
1.5	0950	6.15	411.0	1.08	5.68	6.0	183.7	15.56
1.8	0955	6.16	413.6	1.04	5.75	6.0	184.0	15.64
2.0	1000	6.17	415.0	.91	5.60	6.0	183.9	15.78
2.25	1005	6.18	418.8	.89	5.53	5.4	183.9	15.90
2.4	1010	6.20	420.5	.86	5.70	4.9	183.7	16.04

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity\color: Clear No Color

Sample Odor: (Y) or (N) Explain: Other Observations/Comments:

Analysis Requested: Routine Number of Containers: 6

Well Sampling Completion: Time 1028 Date 11-7-19 Samplers KDE

Dup 1
1040

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-4-19

Monitoring Well: MW-34 **Sample ID:** MW34-1119 **Arrival Time:** 0851

Weather Conditions

Temp. 37 ° F ( )Sunny ( )Partly Cloudy (X)Cloudy ( )Light Rain ( )Hvy. Rain ( )Snow

Wind Conditions: 0-15 mph w/Gusts

Well Condition Checklist

Bump posts: N/A Pro. casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment:

Depth & Purging Information

TD: 235.09 ft – SWL: 150.09 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 13.5 gals

Start Purge: 0925 Purging Method: ( ) Bail ( ) Peristaltic (X) Dedicated Bladder ( ) Non-Dedicated Bladder # ____

Pumping Rate: 500ml/78 sec Start Sampling: 1030 Purge Duration: 1hr 5min Purge Vol: 6.3 gals.

Field Parameters

Meters: YSI (sn: 17D108273), Hach 2100P (sn: 12410) Measured in: (X) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
3.8	1005	7.31	591.9	.83	2.10	6.5	-74.6	160.21
4.3	1010	7.31	591.3	.30	1.85	6.5	-74.9	159.81
4.75	1015	7.31	590.8	.71	1.66	6.60	-74.6	160.82
5.3	1020	7.33	591.1	.85	1.54	6.9	-73.3	161.19
5.8	1025	7.33	590.6	.54	1.34	7.3	-72.7	160.78
6.3	1030	7.34	591.5	.46	1.29	7.3	-70.9	161.63

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: BP300 Sample clarity\color: Clear No Color

Sample Odor: (Y) or (N) Explain: Other Observations/Comments:

Analysis Requested: Routine Number of Containers: 6+Dup1

Well Sampling Completion: Time 1052 Date 11-4-19 Samplers K Dye

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-4-19

Monitoring Well: MW-34A **Sample ID:** MW34A-1119 **Arrival Time:** 0940

Weather Conditions

Temp. 37° F ( )Sunny ( )Partly Cloudy (X)Cloudy ( )Light Rain ( )Hvy. Rain ( )Snow

Wind Conditions: 0-10mph w/Gusts

Well Condition Checklist

Bump posts: NA Pro. casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment:

Depth & Purging Information

TD: 100.99 ft – SWL: 92.27 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 1.3 gals

Start Purge: 0945 Purging Method: (X) Bail ( ) Peristaltic ( ) Dedicated Bladder ( ) Non-Dedicated Bladder # ____

Pumping Rate: NA Start Sampling: 1100 Purge Duration: 11 min Purge Vol: 1.0 gals.

Field Parameters

Meters: YSI (sn: 17D108273), Hach 2100P (sn: 12410) Measured in: ( ) Flow Cell (X) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
1.0	0956	Bailed to Bottom						
1.5	1100	7.18	2195	8.16	NA	9.3	-43.7	

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bailer Sample clarity\color: Clear No Odor

Sample Odor: (Y) or (N) Explain: Other Observations/Comments:

Analysis Requested: Routine Number of Containers: 6

Well Sampling Completion: Time 1115 Date 11-5-19 Samplers K Dye

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-4-19

Monitoring Well: MW-36A **Sample ID:** MW36A-1119 **Arrival Time:** 1411

Weather Conditions

Temp. 48 ° F ( )Sunny (X)Partly Cloudy ( )Cloudy ( )Light Rain ( )Hvy. Rain ( )Snow

Wind Conditions: 0-10 mph

Well Condition Checklist

Bump posts: NA Pro. casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment:

Depth & Purging Information

TD: 63.69 ft – SWL: 61.46 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 0.3 gals

Start Purge: 1415 Purging Method: (X) Bail ( ) Peristaltic ( ) Dedicated Bladder ( ) Non-Dedicated Bladder # ____

Pumping Rate: NA Start Sampling: 1205 1310 Purge Duration: 3 min Purge Vol: .25 gals.

Field Parameters

Meters: YSI (sn: 17D108273), Hach 2100P (sn: 12410) Measured in: ( ) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
.25	1408	Bailed to Bottom						
11/5	1205	6.95	2874	7.58	NA	9.6	113.5	
11/5	1205	Collected Metals-AIK-Phenols						
11/6	1400	~~Daff~~ Well didn't recover			Insufficient Amount	No Sample		
11/7	1310	Collected TKN-TDS						
11-11-19	1340	Collected approx 300ml of Bail						

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bailer Sample clarity\color: Clear No Color

Sample Odor: (Y) or (N) Explain: Other Observations/Comments:

11/11-① 11/5-③ 11/7-②

Analysis Requested: Routine Number of Containers: 6

Well Sampling Completion: Time 1349 Date 11-11-19 Samplers K Dye

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-6-19

Monitoring Well: MW-37 **Sample ID:** MW37-1119 **Arrival Time:** 1007

Weather Conditions

Temp. 34 ° F (X) Sunny ( ) Partly Cloudy ( ) Cloudy ( ) Light Rain ( ) Hvy. Rain ( ) Snow

Wind Conditions: 0-5mph

Well Condition Checklist

Bump posts: NA Pro. casing/lock: O/K Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment:

Depth & Purging Information

TD: 57.20 ft – SWL: 33.80 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 3.7 gals

Start Purge: 1020 Purging Method: ( ) Bail ( ) Peristaltic ( ) Dedicated Bladder (X) Non-Dedicated Bladder # Pencil

Pumping Rate: 500ml/37 sec Start Sampling: 1140 Purge Duration: 1hr 20min Purge Vol: 1.4 gals.

Field Parameters

Meters: YSI (sn: 17D108223), Hach 2100P (sn: 12410) Measured in: (X) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
1.0	1120	7.41	481.7	3.33	1.83	11.5	127.1	33.80
1.1	1125	7.41	480.8	.60	1.71	11.4	127.0	33.80
1.25	1130	7.40	480.6	.71	1.69	11.4	126.8	33.80
1.3	1135	7.40	480.3	.26	1.62	11.4	126.8	33.80
1.4	1140	7.40	479.3	1.11	1.58	11.5	126.7	33.80

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Pencil Pump Sample clarity\color: Clear No color

Sample Odor: (Y) or (N) Explain: Other Observations/Comments:

Analysis Requested: Routine Number of Containers: 6

Well Sampling Completion: Time 1217 Date 11-6-19 Samplers K Dye

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-4-19

Monitoring Well: MW-37A **Sample ID:** MW37A-1119 **Arrival Time:** 1355

Weather Conditions

Temp. 48 ° F ( )Sunny (X)Partly Cloudy ( )Cloudy ( )Light Rain ( )Hvy. Rain ( )Snow

Wind Conditions: 0-10 mph

Well Condition Checklist

Bump posts: NA Pro. casing/lock: ok Surface pad: ok

Well Visibility (paint): ok Well Label: ok Comment:

Depth & Purging Information

TD: 37.84 ft – SWL: 31.92 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 0.9 gals

Start Purge: 1400 Purging Method: (X) Bail ( ) Peristaltic ( ) Dedicated Bladder ( ) Non-Dedicated Bladder # _____

Pumping Rate: NA Start Sampling: 1135 Purge Duration: 4 min Purge Vol: .75 gals.

Field Parameters

Meters: YSI (sn: 17D108273, Hach 2100P (sn: 12410) Measured in: ( ) Flow Cell (X) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
.75	1404							
1115	1135	7.12	1491	5.99	NA	11.9	80.7	

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bailer Sample clarity\color: Clear No Color

Sample Odor: (Y) or (N) Explain: Other Observations/Comments:

Analysis Requested: Routine Number of Containers: 6

Well Sampling Completion: Time 1149 Date 11-5-19 Samplers KDyE

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-7-19

Monitoring Well: MW-40 **Sample ID:** MW40-1119 **Arrival Time:** 1038

Weather Conditions

Temp. 38 ° F ( )Sunny ( )Partly Cloudy (X)Cloudy (X)Light Rain ( )Hvy. Rain ( )Snow

Wind Conditions: 0-10mph

Well Condition Checklist

Bump posts: NA Pro. casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment:

Depth & Purging Information

TD: 52.35 ft – SWL: 48.35 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 0.6 gals

Start Purge: 1100 Purging Method: ( ) Bail ( ) Peristaltic ( ) Dedicated Bladder (X) Non-Dedicated Bladder # 3

Pumping Rate: 500ml/217sec Start Sampling: 1210 Purge Duration: 1hr10min Purge Vol: ~~1.25~~ 1.3 gals.

Field Parameters

Meters: YSI (sn: 17D108273, Hach 2100P (sn: 12410) Measured in: (X) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
.8	1145	7.31	438.6	4.76	3.18	7.8	158.5	48.61
.9	1150	7.32	435.6	4.70	3.02	8.0	157.8	48.71
1.0	1155	7.34	438.4	4.76	2.89	8.2	156.5	48.79
1.1	1200	7.36	439.0	4.33	3.05	8.1	155.1	48.81
1.25	1205	7.37	439.3	4.68	3.16	8.0	154.4	48.78
1.3	1210	7.38	440.9	4.49	3.09	7.4	153.7	48.80

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity\color: Clear No Color

Sample Odor: (Y) or (N) Explain: Other Observations/Comments: Air tube was leaking at Split had to cut Back to get good seal at Controller

Analysis Requested: Routine Number of Containers: 6

Well Sampling Completion: Time 1221 Date 11-7-19 Samplers K Dye

Had to Purge Slow. Slow recovery

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-5-19

Monitoring Well: MW-40A **Sample ID:** MW40A-1119 **Arrival Time:** 0901

Weather Conditions

Temp. 44 ° F ( )Sunny ( )Partly Cloudy ( )Cloudy (X)Light Rain ( )Hvy. Rain ( )Snow

Wind Conditions: 0-10 mph

Well Condition Checklist

Bump posts: NA Pro. casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment:

Depth & Purging Information

TD: 34.90 ft – SWL: 32.78 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 0.3 gals

Start Purge: Purging Method: (X) Direct Bail ( ) Peristaltic ( ) Dedicated Bladder ( ) Non-Dedicated Bladder #

Pumping Rate: NA Start Sampling: 0910 Purge Duration: NA Purge Vol: gals.

Field Parameters

Meters: YSI (sn: 17D108273), Hach 2100P (sn: 12410) Measured in: ( ) Flow Cell (X) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
11/5	0910	6.69	2115	1.45	NA	12.8	183.1	
11/5	0910	Collected All but BOD - AK						
11/6	1410	Collected All						
11/7	1250	No recovery Insufficient Amount						
11/11	1220	Collected approx 400 ml BOD						

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Direct Rai Sample clarity\color: Clear No Color

Sample Odor: (Y) or (N) Explain: Other Observations/Comments:

11/11-(1) 11/5-(4) 11/6 (1)

Analysis Requested: Routine Number of Containers: 6

Well Sampling Completion: Time 1231 Date 11-11-19 Samplers KDyE

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-5-19

Monitoring Well: MW-41A **Sample ID:** MW41A-1119 **Arrival Time:** 0926

Weather Conditions

Temp. 44 ° F ( )Sunny ( )Partly Cloudy (X)Cloudy (X)Light Rain ( )Hvy. Rain ( )Snow

Wind Conditions: 0-10 mph

Well Condition Checklist

Bump posts: NA Pro. casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment:

Depth & Purging Information

TD: 57.78 ft – SWL: 54.94 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: gals

Start Purge: NA Purging Method: (X) Bail ( ) Peristaltic ( ) Dedicated Bladder ( ) Non-Dedicated Bladder #

Pumping Rate: NA Start Sampling: 0935 Purge Duration: NA Purge Vol: NA gals.

Field Parameters

Meters: YSI (sn: 17D108273), Hach 2100P (sn: 12410) Measured in: ( ) Flow Cell (X) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
11/5	0935	6.86	3334	4.52	NA	13.7	173.2	
11/5	0935	Collected All ~~but BOD~~ KD						
~~11/6~~	~~1425~~	~~Collected 800 ml of BOD~~ KD						

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Direct Bail Sample clarity\color: Clear No Odor

Sample Odor: (Y) or (N) Explain: Other Observations/Comments:

Analysis Requested: Routine 11/5-6 Number of Containers: 6

Well Sampling Completion: Time 0944 Date: ~~11-6-19~~ 11-5-19 Samplers K Dye

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-5-19

Monitoring Well: MW-42A **Sample ID:** MW42A-1119 **Arrival Time:** 0945

Weather Conditions

Temp. 43 ° F ( )Sunny ( )Partly Cloudy (X)Cloudy (X)Light Rain ( )Hvy. Rain ( )Snow

Wind Conditions: 0-5mph

Well Condition Checklist

Bump posts: NA Pro. casing/lock: ok Surface pad: ok

Well Visibility (paint): ok Well Label: ok Comment:

Depth & Purging Information

TD: 66.98 ft – SWL: 65.09 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 0.3 gals

Start Purge: NA Purging Method: (X) Bail ( ) Peristaltic ( ) Dedicated Bladder ( ) Non-Dedicated Bladder # ____

Pumping Rate: NA Start Sampling: 1005 Purge Duration: NA Purge Vol: NA gals.

Field Parameters

Meters: YSI (sn: 17D108273), Hach 2100P (sn: 12410) Measured in: ( ) Flow Cell (X) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
11/5	1005	7.00	3013	86.6	NA	10.8	161.1	
11/5	1005	Collect All but BOD-TDS						
11/6	1425	Collected 800 ml BOD						
11/7	1235	Collect 3/3 TDS Bottle						

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Direct Bail Sample clarity\color: Slightly Cloudy with light Amber tint

Sample Odor: (Y) or (N) Explain: Other Observations/Comments:

11/7-(1) 11/5-(4) 11/6-(1)

Analysis Requested: Routine Number of Containers: 6

Well Sampling Completion: Time 1243 Date 11-7-19 Samplers K Dye

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-4-19

Monitoring Well: MW-45A **Sample ID:** MW45A-1119 **Arrival Time:** 1502

Weather Conditions

Temp. 48 ° F ( )Sunny (X)Partly Cloudy ( )Cloudy ( )Light Rain ( )Hvy. Rain ( )Snow

Wind Conditions: 0-5mph

Well Condition Checklist

Bump posts: NA Pro. casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment:

Depth & Purging Information

TD: 111.87 ft – SWL: 86.95 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 3.9 gals

Start Purge: 1505 Purging Method: (X)Bail ( ) Peristaltic ( ) Dedicated Bladder ( ) Non-Dedicated Bladder # ____

Pumping Rate: NA Start Sampling: 1030 Purge Duration: 15min Purge Vol: 3.3 gals.

Field Parameters

Meters: YSI (sn: 17D108273), Hach 2100P (sn: 12410) Measured in: ( ) Flow Cell (X) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
3.3	1500	Baled to Bottom						
~~1/5~~	1030	7.17	1137	17.8	NA	8.9	19.4	

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bailer Sample clarity\color: Clear w/ light Yellow tint

Sample Odor: (Y) or (N) Explain: Other Observations/Comments:

Analysis Requested: Routine Number of Containers: 6

Well Sampling Completion: Time 1046 Date 11-5-19 Samplers KDyE

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-6-19

Monitoring Well: MW-47A **Sample ID:** MW47A-1119 **Arrival Time:** ~~1057~~ 1222

Weather Conditions

Temp. ~~40~~ 40 F (X)Sunny ( )Partly Cloudy ( )Cloudy ( )Light Rain ( )Hvy. Rain ( )Snow

Wind Conditions: 0-5 mph

Well Condition Checklist

Bump posts: NA Pro. casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment:

Depth & Purging Information

TD: 42.45 ft – SWL: 27.00 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 2.4 gals

Start Purge: 1230 Purging Method: ( ) Bail ( ) Peristaltic ( ) Dedicated Bladder (X) Non-Dedicated Bladder # 3

Pumping Rate: 500ml/216 sec Start Sampling: 1325 Purge Duration: 55min Purge Vol: 2.6 gals.

Field Parameters

Meters: YSI (sn: 17D108273), Hach 2100P (sn: 12410) Measured in: (X) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
1.4	1300	7.18	1435	2.31	.54	9.5	-104.4	31.33
1.75	1305	7.17	1432	1.11	.52	9.9	-104.7	32.51
2.0	1310	7.16	1437	1.86	.53	10.0	-104.2	
2.25	1315	7.17	1440	2.00	.53	9.3	-103.4	33.69
2.4	1320	7.17	1442	1.81	.51	9.1	-101.9	34.08
2.6	1325	7.17	1445	1.88	.56	8.9	-101.1	34.83

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity\color: Clear w/Fine Black Particulates

Sample Odor: (Y) or (N) Explain: Other Observations/Comments:

Analysis Requested: Routine Number of Containers: 6

Well Sampling Completion: Time 1349 Date 11-6-19 Samplers K Dye

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-4-19

Monitoring Well: MW-48 **Sample ID:** MW48-1119 **Arrival Time:** 1100

Weather Conditions

Temp. 42 ° F ( )Sunny ( )Partly Cloudy (X)Cloudy ( )Light Rain ( )Hvy. Rain ( )Snow

Wind Conditions: 0-10mph w/Gusts

Well Condition Checklist

Bump posts: NA Pro. casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment:

Depth & Purging Information

TD: 160.50 ft – SWL: 155.69 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 0.7 gals

Start Purge: 1115 Purging Method: ( ) Bail ( ) Peristaltic ( ) Dedicated Bladder ( ) Non-Dedicated Bladder # ____

Pumping Rate: 500ml/212 sec Start Sampling: 1200 Purge Duration: 45 min Purge Vol: 0.6 gals.

Field Parameters

Meters: YSI (sn: 17D1062) Hach 2100P (sn: 12410) Measured in: ( ) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
.3	1140	7.24	925	1.18	3.34	9.2	83.7	157.12
.4	1145	7.20	985	1.30	3.15	9.1	69.9	157.53
.5	1150	7.16	988	1.40	3.08	8.9	66.2	157.84
.5	1155	7.12	991	1.46	3.02	8.7	66.7	158.13
.6	1200	7.11	93.4	6.58	2.93	8.7	67.6	158.45

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: BP300 Sample clarity\color: Clear No Color

Sample Odor: (Y) or (N) Explain: Other Observations/Comments: Fill=80

Press=85 Diss=18

Analysis Requested: Routine Number of Containers: 6

Well Sampling Completion: Time 1228 Date 11-4-19 Samplers K DyE

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-4-19

Monitoring Well: MW-48A **Sample ID:** No Sample **Arrival Time:** 1136

Weather Conditions

Temp. 44 ° F ( )Sunny ( )Partly Cloudy (X)Cloudy ( )Light Rain ( )Hvy. Rain ( )Snow

Wind Conditions: 0-10mph

Well Condition Checklist

Bump posts: NA Pro. casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: DRY

Depth & Purging Information

TD: 102.47 ft – SWL: DRY ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: _____ gals

Start Purge: _____ Purging Method: (X) Bail ( ) Peristaltic ( ) Dedicated Bladder ( ) Non-Dedicated Bladder # _____

Pumping Rate: _____ Start Sampling: _____ Purge Duration: _____ Purge Vol: _____ gals.

Field Parameters

Meters: YSI (sn: _____), Hach 2100P (sn: _____) Measured in: ( ) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method Bailer Sample clarity\color: _____

Sample Odor: (Y) or (N) Explain: _____ Other Observations/Comments: DRY

Analysis Requested: Routine Number of Containers: 3

Well Sampling Completion: Time 1140 Date 11-4-19 Samplers K Dye

On-Site Technical Services, Inc.

Surface Water and Sediment Water Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-7-19

Sampling Location: DB-1 **Sample ID:** DB1-1119 **Arrival Time:** 1318

Sediment Sample ID: No SED

Weather Conditions

Temp. 35 ° F ( ) Sunny ( ) Partly Cloudy (X) Cloudy (X) Light Rain ( ) Hvy. Rain (X) light Snow

Wind Conditions: 0-5mph

Flow and Depth Information (as appropriate)

Depth: 6" Estimated Flow: 16PM Comments: _____

Field Parameters (as appropriate)

Meter: YSI (sn: 17D108273), Hach 2100P (sn: 12410) Measured in: (X) Submerged Probe ( ) Cup

Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
1330	7.68	203.5	172.0	8.56	6.0	156.1

Sample Information

Sample Type: (X) Grab ( ) Composite Sample Location: (X) Discharge Pipe ( ) Pond ( ) Ditch

Water Sample:

Location Description/Condition: Discharge Pipe South of Pond

Sample Collection Equipment/Method: dipper Sample Time: 1330

Sample Description (clarity\color): Light/cloudy light Sample Odor: (Y) or (N) Explain: _____

Other Observations/Comments: Amber tint

Sediment Sample:

Sample Collection Equipment/Method: _____ Sample Time: _____

Sample Description (clarity\color): _____

Sample Odor: (Y) or (N) Explain: _____ Other Observations: No SED

Analysis Requested: Routine Number of Containers: 6

Sampling Completion: Time 1352 Date 11-7-19 Samplers K Dye

On-Site Technical Services, Inc.

Surface Water and Sediment Water Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-1-19

Sampling Location: DB-3 **Sample ID:** DB3-1119 **Arrival Time:** 0834

Sediment Sample ID: No SED

Weather Conditions

Temp. 34 ° F ( ) Sunny ( ) Partly Cloudy (X) Cloudy ( ) Light Rain ( ) Hvy. Rain ( ) Snow

Wind Conditions: 0-5 mph

Flow and Depth Information (as appropriate)

Depth: 3-4" Estimated Flow: 1 GPM Comments: _____

Field Parameters (as appropriate)

Meter: YSI (sn: 17D105273), Hach 2100P (sn: 12410) Measured in: (X) Submerged Probe ( ) Cup

Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
0925	7.51	290.3	83.4	13.27	3.3	98.7

Sample Information

Sample Type: (X) Grab ( ) Composite Sample Location: ( ) Discharge Pipe ( ) Pond (X) Ditch

Water Sample:

Location Description/Condition: From water channel below Rat Basin

Sample Collection Equipment/Method: Grab - dipper Sample Time: 0925

Sample Description (clarity\color): Slightly Cloudy, light Yellow tint Sample Odor: (Y) or (N) Explain: _____

Other Observations/Comments: _____

DB

Sediment Sample:

Sample Collection Equipment/Method: No SED Sample Time: _____

Sample Description (clarity\color): _____

Sample Odor: (Y) or (N) Explain: _____ Other Observations: _____

Analysis Requested: Routine Number of Containers: 6

Sampling Completion: Time 0939 Date 11-1-19 Samplers K Dye

On-Site Technical Services, Inc.

Surface Water and Sediment Water Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-1-19

Sampling Location: East Perimeter Ditch **Sample ID:** No Sample **Arrival Time:** 1314

Sediment Sample ID: NONE

Weather Conditions

Temp. 34 ° F ( ) Sunny ( ) Partly Cloudy (X) Cloudy ( ) Light Rain ( ) Hvy. Rain ( ) Snow

Wind Conditions: 0-5 mph

Flow and Depth Information (as appropriate)

Depth: _____ Estimated Flow: → Comments: No Visible Flow Some Standing water

Field Parameters (as appropriate)

Meter: YSI (sn:), Hach 2100P (sn:) Measured in: ( ) Submerged Probe ( ) Cup

Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)

Sample Information

Sample Type: (X) Grab ( ) Composite Sample Location: ( ) Discharge Pipe ( ) Pond (X) Ditch

Water Sample:

Location Description/Condition: Ditch just South of shed

Sample Collection Equipment/Method: NONE Sample Time: _____

Sample Description (clarity\color): _____ Sample Odor: (Y) or (N) Explain: _____

Other Observations/Comments: _____

Sediment Sample:

Sample Collection Equipment/Method: _____ Sample Time: _____

Sample Description (clarity\color): _____

Sample Odor: (Y) or (N) Explain: _____ Other Observations: _____

Analysis Requested: Routine Number of Containers: 1

Sampling Completion: Time 1320 Date 11-1-19 Samplers KDyE

On-Site Technical Services, Inc.

Surface Water and Sediment Water Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-1-19

Sampling Location: West Ditch **Sample ID:** No Sample **Arrival Time:** 1203

Sediment Sample ID: None

Weather Conditions

Temp. 36° F ( ) Sunny ( ) Partly Cloudy (X) Cloudy ( ) Light Rain ( ) Hvy. Rain ( ) Snow

Wind Conditions: 0-5 mph

Flow and Depth Information (as appropriate)

Depth: _____ Estimated Flow: No Flow Comments: _____

Field Parameters (as appropriate)

Meter: YSI (sn: _____), Hach 2100P (sn: _____) Measured in: ( ) Submerged Probe ( ) Cup

Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)

Sample Information

Sample Type: ( ) Grab ( ) Composite Sample Location: ( ) Discharge Pipe ( ) Pond (X) Ditch

Water Sample:

Location Description/Condition: Ditch

Sample Collection Equipment/Method: NONE Sample Time: No Sample

Sample Description (clarity\color): _____ Sample Odor: (Y) or (N) Explain: _____

Other Observations/Comments: No Flow

Sediment Sample:

Sample Collection Equipment/Method: NONE Sample Time: _____

Sample Description (clarity\color): _____

Sample Odor: (Y) or (N) Explain: _____ Other Observations: _____

Analysis Requested: Routine Number of Containers: 0

Sampling Completion: Time 1206 Date 11-1-19 Samplers KAE

On-Site Technical Services, Inc.

Groundwater Suppression, Leachate, Residential Water Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-5-19

Sampling Location: GSS-1 **Sample ID:** GSS1-1119 **Arrival Time:** 1350

Weather Conditions

Temp. 45 ° F ( ) Sunny ( ) Partly Cloudy (X) Cloudy (X) Light Rain ( ) Hvy. Rain ( ) Snow

Wind Conditions: 0-5mph

Location Type

(X) Groundwater Suppression ( ) Leachate ( ) Secondary Leachate ( ) Residential Water ( ) Other

Description:

Flow and Depth Information (as appropriate)

Depth: NA Estimated Flow: → Comments: MANUAL by operated Switch

Field Parameters (as appropriate)

Meter: YSI (sn: 17D108273), Hach 2100P (sn: 12410) Measured in: ( ) Submerged Probe (X) Cup

Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
~~1350~~ 1415	7.03	378.5	21.0	NA	22.4	111.3

Sample Information

Sample Type: (X) Grab ( ) Composite Sample Location: (X) Discharge Pipe ( ) Pond (X) Ditch

Location Description/Condition: East of riser house in ditch

Sample Collection Equipment/Method: Grab Sample Time: 1415

Sample Description (clarity\color): Clear No color Sample Odor: (Y) or (N) Explain:

Other Observations/Comments:

Analysis Requested: Routine Number of Containers: 6

Sampling Completion: Time 1436 Date 11-5-19 Samplers K DyE

On-Site Technical Services, Inc.

Groundwater Suppression, Leachate, Residential Water Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-5-19

Sampling Location: GSS-2 E/F **Sample ID:** GSS2EF-1119 **Arrival Time:** 1233

Weather Conditions

Temp. 45 ° F ( ) Sunny ( ) Partly Cloudy (X) Cloudy (X) Light Rain ( ) Hvy. Rain ( ) Snow

Wind Conditions: 0-5 mph

Location Type

(X) Groundwater Suppression ( ) Leachate ( ) Secondary Leachate ( ) Residential Water ( ) Other

Description: _____

Flow and Depth Information (as appropriate)

Depth: NA Estimated Flow: → Comments: manually operated switch

Field Parameters (as appropriate)

Meter: YSI (sn: 17D108273), Hach 2100P (sn: 12410) Measured in: ( ) Submerged Probe (X) Cup

Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
1245	7.16	608	.69	NA	24.5	55.1

Sample Information

Sample Type: (X) Grab ( ) Composite Sample Location: ( ) Discharge Pipe ( ) Pond (X) ~~Ditch~~ Hose Bibb

Location Description/Condition: Riser House

Sample Collection Equipment/Method: Grab Sample Time: 1245

Sample Description (clarity\color): Clear No color Sample Odor: (Y) or (N) Explain: _____

Other Observations/Comments: _____

Analysis Requested: Baseline Number of Containers: 12

Sampling Completion: Time 1303 Date 11-5-19 Samplers K D E

On-Site Technical Services, Inc.

Groundwater Suppression, Leachate, Residential Water Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-5-19

Sampling Location: GSS-2 G/H **Sample ID:** GSS2GH-1119 **Arrival Time:** 1310

Weather Conditions

Temp. 45 ° F ( ) Sunny ( ) Partly Cloudy (X) Cloudy (X) Light Rain ( ) Hvy. Rain ( ) Snow

Wind Conditions: 0-5 mph

Location Type

(X) Groundwater Suppression ( ) Leachate ( ) Secondary Leachate ( ) Residential Water ( ) Other

Description: _____

Flow and Depth Information (as appropriate)

Depth: NA Estimated Flow: → Comments: manually operated Switch

Field Parameters (as appropriate)

Meter: YSI (sn: 17D108273), Hach 2100P (sn: 12410) Measured in: ( ) Submerged Probe (X) Cup

Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
1325	6.84	1297	7.68	NA	20.4	-18.5

Sample Information

Sample Type: (X) Grab ( ) Composite Sample Location: (X) Discharge Pipe ( ) Pond (X) Ditch

Location Description/Condition: Pipe in Ditch West of river House

Sample Collection Equipment/Method: Grab Sample Time: 1325

Sample Description (clarity\color): Clear No Color Sample Odor: (Y) or (N) Explain: _____

Other Observations/Comments: _____

Analysis Requested: Routine Number of Containers: 6

Sampling Completion: Time 1344 Date 11-5-19 Samplers KDyE

On-Site Technical Services, Inc.

Groundwater Suppression, Leachate, Residential Water Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-4-19

Sampling Location: GSS-3 **Sample ID:** GSS3-1119 **Arrival Time:** 1310

Weather Conditions

Temp. 47 ° F ( ) Sunny (X) Partly Cloudy ( ) Cloudy ( ) Light Rain ( ) Hvy. Rain ( ) Snow

Wind Conditions: 0-15 mph

Location Type

(X) Groundwater Suppression ( ) Leachate ( ) Secondary Leachate ( ) Residential Water ( ) Other

Description: _____

Flow and Depth Information (as appropriate)

Depth: 47 Estimated Flow: 1GPM Comments: _____

Field Parameters (as appropriate)

Meter: YSI (sn: 17D108273), Hach 2100P (sn: 12410) Measured in: ( ) Submerged Probe (X) Cup

Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
1320	6.91	670	.47	NA	16.2	228.6

Sample Information

Sample Type: (X) Grab ( ) Composite Sample Location: (X) Discharge Pipe ( ) Pond ( ) Ditch

Location Description/Condition: _____

Sample Collection Equipment/Method: Direct Grab Sample Time: 1320

Sample Description (clarity\color): Clear No Color Sample Odor: (Y) or (N) Explain: _____

Other Observations/Comments: _____

Analysis Requested: Baseline Number of Containers: 12

Sampling Completion: Time 1349 Date 11-4-19 Samplers K Dye

On-Site Technical Services, Inc.

Groundwater Suppression, Leachate, Residential Water Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-4-19 - 11-7-19

Sampling Location: GSS-4 **Sample ID:** No Sample **Arrival Time:** 1350

Weather Conditions

Temp. 47 ° F ( ) Sunny (X) Partly Cloudy ( ) Cloudy ( ) Light Rain ( ) Hvy. Rain ( ) Snow

Wind Conditions: 0-15 mph

Location Type

(X) Groundwater Suppression ( ) Leachate ( ) Secondary Leachate ( ) Residential Water ( ) Other

Description: _____

Flow and Depth Information (as appropriate)

Depth: NA Estimated Flow: → Comments: Insufficient Flow - Slight Drizzle

Field Parameters (as appropriate)

Meter: YSI (sn: _____), Hach 2100P (sn: _____) Measured in: ( ) Submerged Probe ( ) Cup

Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)

Sample Information

Sample Type: ( ) Grab ( ) Composite Sample Location: ( ) Discharge Pipe ( ) Pond ( ) Ditch

Location Description/Condition: _____

Sample Collection Equipment/Method: _____ Sample Time: _____

Sample Description (clarity\color): _____ Sample Odor: (Y) or (N) Explain: _____

Other Observations/Comments: _____

Analysis Requested: Routine Number of Containers: 0

Sampling Completion: Time 1355 Date 11-7-19 Samplers K. Dye

On-Site Technical Services, Inc.

Groundwater Suppression, Leachate, Residential Water Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-4-19

Sampling Location: GSS-5 **Sample ID:** GSS5-1119 **Arrival Time:** 1249

Weather Conditions

Temp. 47 ° F ( ) Sunny ( ) Partly Cloudy (X) Cloudy ( ) Light Rain ( ) Hvy. Rain ( ) Snow

Wind Conditions: 0-10mph

Location Type

(X) Groundwater Suppression ( ) Leachate ( ) Secondary Leachate ( ) Residential Water ( ) Other

Description: _____

Flow and Depth Information (as appropriate)

Depth: NA Estimated Flow: 2 GPM Comments: _____

Field Parameters (as appropriate)

Meter: YSI (sn: 17D108273), Hach 2100P (sn: 13410) Measured in: ( ) Submerged Probe (X) Cup

Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
1225	7.43	4695	3.68	NA	16.0	107.6

Sample Information

Sample Type: (X) Grab ( ) Composite Sample Location: (X) Discharge Pipe ( ) Pond ( ) Ditch

Location Description/Condition: Over East side Beyond MW45

Sample Collection Equipment/Method: Dipper Sample Time: 1225

Sample Description (clarity\color): Clear No Color Sample Odor: (Y) or (N) Explain: _____

Other Observations/Comments: _____

Analysis Requested: Routine Number of Containers: 6

Sampling Completion: Time 1306 Date 11-4-19 Samplers K D E

On-Site Technical Services, Inc.

Groundwater Suppression, Leachate, Residential Water Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-12-19

Sampling Location: Shay Spring / Shay Pre Filter **Sample ID:** Shay Spring-1119 **Arrival Time:** 0956

Weather Conditions

Temp. 19 ° F ( ) Sunny ( ) Partly Cloudy ( ) Cloudy ( ) Light Rain ( ) Hvy. Rain (X) Snow light

Wind Conditions: 0-5mph

Location Type

( ) Groundwater Suppression ( ) Leachate ( ) Secondary Leachate (X) Residential Water ( ) Other

Description:

Flow and Depth Information (as appropriate)

Depth: NA Estimated Flow: 1GPM Comments:

Field Parameters (as appropriate)

Meter: YSI (sn: 17D108273), Hach 2100P (sn: 12410) Measured in: ( ) Submerged Probe (X) Cup

Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
1010	7.15	494.5	10.23	NA	10.9	161.4

Sample Information

Sample Type: ( ) Grab ( ) Composite Sample Location: ( ) Discharge Pipe ( ) Pond ( ) Ditch

Location Description/Condition: Discharge pipe at spring down Behind House

Sample Collection Equipment/Method: Grab Sample Time: 1010

Sample Description (clarity\color): Clear No Color Sample Odor: (Y) or (N) Explain:

Other Observations/Comments:

Analysis Requested: Routine Number of Containers: 6

Sampling Completion: Time 1017 Date 11-12-19 Samplers KDC

On-Site Technical Services, Inc.

Groundwater Suppression, Leachate, Residential Water Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-12-19

Sampling Location: ~~Shay House~~ KD Shay Post Filter **Sample ID:** Shay House-1119 **Arrival Time:** 1024

Weather Conditions

Temp. 19 ° F ( ) Sunny ( ) Partly Cloudy (X) Cloudy ( ) Light Rain ( ) Hvy. Rain (X) light Snow

Wind Conditions: 0-5 mph

Location Type

( ) Groundwater Suppression ( ) Leachate ( ) Secondary Leachate (X) Residential Water ( ) Other

Description: _____

Flow and Depth Information (as appropriate)

Depth: NA Estimated Flow: NA Comments: _____

Field Parameters (as appropriate)

Meter: YSI (sn: 17D108223), Hach 2100P (sn: 12410) Measured in: ( ) Submerged Probe (X) Cup

Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
1030	6.58	513.8	.22	NA	19.3	208.5

Sample Information

Sample Type: ( ) Grab ( ) Composite Sample Location: ( ) Discharge Pipe ( ) Pond ( ) Ditch

Location Description/Condition: Bathroom Sink in Basement Post Water Treatment

Sample Collection Equipment/Method: _____ Sample Time: 1030

Sample Description (clarity\color): Clear No Color Sample Odor: (Y) or (N) Explain: _____

Other Observations/Comments: _____

Analysis Requested: Routine Number of Containers: 6

Sampling Completion: Time 1046 Date 11-12-19 Samplers KDE

On-Site Technical Services, Inc.

Groundwater Suppression, Leachate, Residential Water Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-11-19

Sampling Location: H. Gordon RES **Sample ID:** H. Gordon -1119 **Arrival Time:** 1352

Weather Conditions

Temp. 34 ° F ( ) Sunny ( ) Partly Cloudy (X) Cloudy ( ) Light Rain ( ) Hvy. Rain ( ) Snow

Wind Conditions: 0-10 mph

Location Type

( ) Groundwater Suppression ( ) Leachate ( ) Secondary Leachate (X) Residential Water ( ) Other

Description: _____

Flow and Depth Information (as appropriate)

Depth: NA Estimated Flow: _____ Comments: _____

Field Parameters (as appropriate)

Meter: YSI (sn: 17D108273), Hach 2100P (sn: 12410) Measured in: ( ) Submerged Probe (X) Cup

Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
1400	7.46	496.8	.23	NA	10.3	122.2

Sample Information

Sample Type: (X) Grab ( ) Composite Sample Location: ( ) Discharge Pipe ( ) Pond ( ) Ditch

Location Description/Condition: Basement Sink

Sample Collection Equipment/Method: Grab Sample Time: 1400

Sample Description (clarity\color): Clear No Color Sample Odor: (Y) or (N) Explain: _____

Other Observations/Comments: _____

Analysis Requested: Routine Number of Containers: 6

Sampling Completion: Time 1415 Date 11-11-19 Samplers K D, E

On-Site Technical Services, Inc.

Groundwater Suppression, Leachate, Residential Water Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-12-19

Sampling Location: E. Gordon Camp 2 **Sample ID:** Gordon Camp 2-1119 **Arrival Time:** 1138

Weather Conditions

Temp. 24 ° F ( ) Sunny (X) Partly Cloudy ( ) Cloudy ( ) Light Rain ( ) Hvy. Rain ( ) Snow

Wind Conditions: 0-5mph

Location Type

( ) Groundwater Suppression ( ) Leachate ( ) Secondary Leachate (X) Residential Water ( ) Other

Description: _____

Flow and Depth Information (as appropriate)

Depth: NA Estimated Flow: NA Comments: _____

Field Parameters (as appropriate)

Meter: YSI (sn: 17D10827), Hach 2100P (sn: 12410) Measured in: ( ) Submerged Probe (X) Cup

Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
1150	7.44	574.5	1.03	NA	12.6	-77.0

Sample Information

Sample Type: (X) Grab ( ) Composite Sample Location: ( ) Discharge Pipe ( ) Pond ( ) Ditch

Location Description/Condition: Kitchen Sink - ~~Rd~~ Riley Rd 1/2 way up on South of Rd (on the right)

Sample Collection Equipment/Method: Direct Grab Sample Time: 1150

Sample Description (clarity\color): Clear No Color Sample Odor (Y) or (N) Explain: Slight Sulphur odor

Other Observations/Comments: Resident (Mr. Gordon) Declined to have Camp 2 + E. Gordon Residence Sampled.

Analysis Requested: Routine Number of Containers: 6

Sampling Completion: Time 1210 Date 11-12-19 Samplers K Dye

On-Site Technical Services, Inc.

Groundwater Suppression, Leachate, Residential Water Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-11-19

Sampling Location: Goodliff ~~Rd SW~~ - Spring **Sample ID:** Goodliff-1119 **Arrival Time:** 0956

Weather Conditions

Temp. 34 ° F ( ) Sunny ( ) Partly Cloudy (X) Cloudy ( ) Light Rain ( ) Hvy. Rain ( ) Snow

Wind Conditions: 0-5mph

Location Type

( ) Groundwater Suppression ( ) Leachate ( ) Secondary Leachate (X) Residential Water ( ) Other

Description: _____

Flow and Depth Information (as appropriate)

Depth: 73ft Estimated Flow: _____ Comments: _____

Field Parameters (as appropriate)

Meter: YSI (sn: 17D108273), Hach 2100P (sn: 12410) Measured in: ( ) Submerged Probe (X) Cup

Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
1000	7.46	647.6	.60	NA	6.2	150.1

Sample Information

Sample Type: (X) Grab ( ) Composite Sample Location: ( ) Discharge Pipe ( ) Pond (X) ~~Ditch~~ Tank

Location Description/Condition: Spring in Tank up behind Main House - Rte 20 South of ~~Riley~~ Riley Rd House #6502

Sample Collection Equipment/Method: ~~dipper~~ Bailer Sample Time: 1000

Sample Description (clarity\color): Clear No color Sample Odor: (Y) or (N) Explain: _____

Other Observations/Comments: _____

Analysis Requested: Routine Number of Containers: 6

Sampling Completion: Time 1019 Date 11-11-19 Samplers K DE

On-Site Technical Services, Inc.

Groundwater Suppression, Leachate, Residential Water Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-11-19

Sampling Location: Goodliff Res -well **Sample ID:** Goodliff Trailer-1119 **Arrival Time:** 1027

Weather Conditions

Temp. 34 ° F ( ) Sunny ( ) Partly Cloudy (X) Cloudy ( ) Light Rain ( ) Hvy. Rain ( ) Snow

Wind Conditions: 0-5mph

Location Type

( ) Groundwater Suppression ( ) Leachate ( ) Secondary Leachate (X) Residential Water ( ) Other

Description:

Flow and Depth Information (as appropriate)

Depth: 10-15 ft Estimated Flow: NA Comments:

Field Parameters (as appropriate)

Meter: YSI (sn: 17D108273), Hach 2100P (sn: 12410) Measured in: ( ) Submerged Probe (X) Cup

Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
1045	8.10	325.6	15.2	NA	10.5	116.3

Sample Information

Sample Type: (X) Grab ( ) Composite Sample Location: ( ) Discharge Pipe ( ) Pond (X) ~~Ditch~~ well

Location Description/Condition: Well CASing - 6" Well not being pumped in order Appear Stagnate Sample collected by lowering Bailer into well casing

Sample Collection Equipment/Method: Bailer Sample Time: 1045

Sample Description (clarity\color): Clear w/ Particulates Sample Odor: (Y) or (N) Explain:

Other Observations/Comments: Not being used - Trailer.

Location Rte 20 South of Riley - House Trailer Aligned Parrallell to Road.

Analysis Requested: Routine Number of Containers: 6

Sampling Completion: Time 1115 Date 11-11-19 Samplers K. Dye

On-Site Technical Services, Inc.

Groundwater Suppression, Leachate, Residential Water Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-11-19

Sampling Location: Hutchesons Pre Filter **Sample ID:** Hutchesons-1119 **Arrival Time:** 1129

Weather Conditions

Temp. 36° F ( ) Sunny ( ) Partly Cloudy (X) Cloudy ( ) Light Rain ( ) Hvy. Rain ( ) Snow

Wind Conditions: 0-5 mph

Location Type

( ) Groundwater Suppression ( ) Leachate ( ) Secondary Leachate (X) Residential Water ( ) Other

Description: _____

Flow and Depth Information (as appropriate)

Depth: NA Estimated Flow: NA Comments: _____

Field Parameters (as appropriate)

Meter: YSI (sn: 17D108223), Hach 2100P (sn: 12410) Measured in: ( ) Submerged Probe (X) Cup

Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
1130	8.11	1088	3.45	NA	10.0	-52.4

Sample Information

Sample Type: (X) Grab ( ) Composite Sample Location: ( ) Discharge Pipe ( ) Pond ( ) Ditch

Location Description/Condition: Sink in Basement - Water not run thru culligan water system. Water source being is well. Corner of Riley Rd and Rte 20

Sample Collection Equipment/Method: Grab Sample Time: 1130

Sample Description (clarity\color): Clear No Color Sample Odor: (Y) or (N) Explain: _____

Other Observations/Comments: _____

Analysis Requested: Routine Number of Containers: 6

Sampling Completion: Time 1151 Date 11-11-19 Samplers K Dye

On-Site Technical Services, Inc.

Groundwater Suppression, Leachate, Residential Water Sampling

Project: Hyland Facility - Angelica, New York **Date:** 11-12-19

Sampling Location: Swineford Res **Sample ID:** Swineford-1119 **Arrival Time:** 1100

140 Shawmut Rd

Weather Conditions

Temp. 19 ° F ( ) Sunny ( ) Partly Cloudy (X) Cloudy ( ) Light Rain ( ) Hvy. Rain (X) light Snow

Wind Conditions: 0-5 mph

Location Type

( ) Groundwater Suppression ( ) Leachate ( ) Secondary Leachate (X) Residential Water ( ) Other

Description: _____

Flow and Depth Information (as appropriate)

Depth: NA Estimated Flow: NA Comments: _____

Field Parameters (as appropriate)

Meter: YSI (sn: 17D108273), Hach 2100P (sn: 12410) Measured in: ( ) Submerged Probe (X) Cup

Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
1110	6.04	212.9	.32	NA	11.7	231.2
1400	6.80	use Data Entry				

Sample Information

Sample Type: (X) Grab ( ) Composite Sample Location: ( ) Discharge Pipe ( ) Pond ( ) Ditch

Location Description/Condition: Bathroom Sink - No Filter - North of 86 on Shawmut Rd - 40 House # (end of Rd)

Sample Collection Equipment/Method: Direct Grab Sample Time: 1110

Sample Description (clarity\color): Clear No Color Sample Odor: (Y) or (N) Explain: _____

Other Observations/Comments: Checked pH at warmer Temp with Both 14L100804 + 17D108273

Analysis Requested: Routine Number of Containers: 6

Sampling Completion: Time 1119 Date 11-12-19 Samplers K Nye

Appendix B

Lab Analytical Reports

November 12, 2019 Service Request No:R1910783

Russell Anderson
Casella Waste - Hyland
4 Chenell Drive
Suite 200
Concord, NH 03301

Laboratory Results for: Hyland Facility - Routine Parameters

Dear Russell,

Enclosed are the results of the sample(s) submitted to our laboratory November 05, 2019
For your reference, these analyses have been assigned our service request number **R1910783.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
For

Janice Jaeger
Project Manager

CC: Jon Brandes

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Narrative Documents

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Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request: R1910783
Date Received: 11/05/2019

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Four water samples were received for analysis at ALS Environmental on 11/05/2019. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by _____ Date 11/12/2019

SAMPLE DETECTION SUMMARY

CLIENT ID: MW34-1119			Lab ID: R1910783-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	236		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.318		0.003	0.050	mg/L	350.1
Chloride	21.3		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	184			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrogen, Total Kjeldahl (TKN)	0.29		0.10	0.20	mg/L	351.2
Phenolics, Total Recoverable	0.0014	J	0.0010	0.0050	mg/L	9066
Solids, Total Dissolved (TDS)	384		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	64.8		0.4	2.0	mg/L	9056A
Calcium, Total	49400		300	1000	ug/L	6010C
Iron, Total	200		20	100	ug/L	6010C
Magnesium, Total	14700		30	1000	ug/L	6010C
Manganese, Total	137		4	10	ug/L	6010C
Potassium, Total	1300	J	200	2000	ug/L	6010C
Sodium, Total	75400		200	1000	ug/L	6010C

CLIENT ID: DUP1-1119			Lab ID: R1910783-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	236		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.320		0.003	0.050	mg/L	350.1
Chloride	21.7		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	180			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrogen, Total Kjeldahl (TKN)	0.40		0.10	0.20	mg/L	351.2
Phenolics, Total Recoverable	0.0013	J	0.0010	0.0050	mg/L	9066
Solids, Total Dissolved (TDS)	387		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	65.9		0.4	2.0	mg/L	9056A
Calcium, Total	48400		300	1000	ug/L	6010C
Iron, Total	190		20	100	ug/L	6010C
Magnesium, Total	14500		30	1000	ug/L	6010C
Manganese, Total	135		4	10	ug/L	6010C
Potassium, Total	1300	J	200	2000	ug/L	6010C
Sodium, Total	74000		200	1000	ug/L	6010C

CLIENT ID: MW48-1119			Lab ID: R1910783-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	215		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon, Total Organic (TOC)	0.7	J	0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	15.0		0.5	2.0	mg/L	9056A

SAMPLE DETECTION SUMMARY

CLIENT ID: MW48-1119			Lab ID: R1910783-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Hardness, Total as CaCO3	593			6.62	mg/L	SM 2340 B-1997 (2011)
Phenolics, Total Recoverable	0.0015	J	0.0010	0.0050	mg/L	9066
Solids, Total Dissolved (TDS)	815		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	412		4	20	mg/L	9056A
Calcium, Total	158000		300	1000	ug/L	6010C
Iron, Total	270		20	100	ug/L	6010C
Magnesium, Total	48000		30	1000	ug/L	6010C
Manganese, Total	43		4	10	ug/L	6010C
Potassium, Total	3600		200	2000	ug/L	6010C
Sodium, Total	33800		200	1000	ug/L	6010C

CLIENT ID: GSS5-1119			Lab ID: R1910783-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	208		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Chloride	13.6		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	257			6.62	mg/L	SM 2340 B-1997 (2011)
Solids, Total Dissolved (TDS)	313		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	38.2		0.4	2.0	mg/L	9056A
Calcium, Total	66500		300	1000	ug/L	6010C
Iron, Total	140		20	100	ug/L	6010C
Magnesium, Total	22000		30	1000	ug/L	6010C
Manganese, Total	178		4	10	ug/L	6010C
Potassium, Total	2800		200	2000	ug/L	6010C
Sodium, Total	9300		200	1000	ug/L	6010C

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Casella Waste Systems (Hampden ME) **Service Request:**R1910783
Project: Hyland Facility - Routine Parameters

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1910783-001	MW34-1119	11/4/2019	1030
R1910783-002	DUP1-1119	11/4/2019	1040
R1910783-003	MW48-1119	11/4/2019	1200
R1910783-004	GSS5-1119	11/4/2019	1225

CHAIN of CUSTODY

Page 1 of 1

ALS-Environmental
1565 Jefferson Rd, Bldg 300, Suite 360
Rochester, NY 14623
585.288.5380

Client: Casella/On-Site
6653 Herdman Rd
Angelica NY. 14709

Project Manager: Russ Anderson/Jon Brandes

Project: Hyland - Routine Parameters

Telephone No.: 585-593-1824

Email: jonb@on-sitehs.com

Method of Shipment: UPS

Special Detection Limit/Reporting

PDF to Russ and On-Site, and EDD to On-Site.

Sample I.D.	Lab Sample No.	No. of Containers	Matrix: Soil	Water	Air	Other	Prsv.: Yes	No	Sampling Date	Sampling Time	BOD (NP)	Phenols & TOC (H2SO4)	Alkalinity (NP)	NH3, TKN, COD (H2SO4)	T-Metals, Hardness (Routine) (HNO3)	TDS, NO3, Br, Cl, SO4 (NP)
MW34-1119		6		X			X	X	11-4-19	1030	X	X	X	X	X	X
Dup1-1119		6		X			X	X	11-4-19	1040	X	X	X	X	X	X
MW48-1119		6		X			X	X	11-4-19	1200	X	X	X	X	X	X
GSS5-1119		6		X			X	X	11-4-19	1225	X	X	X	X	X	X

REMARKS

Sample Received Intact: Yes No

Temperature received: Ice No ice

Relinq. by sampler (Sign & Print Name)	Date	Time	Received by (Sign & Print Name)
Kevin Dye / Kevin Dye	11-4-19	1540	
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by laboratory: Date 11/5/19 Time 1155

Lab Work No.

R1910783 5
Casella Waste - Hyland
Hyland Facility - Routine Parameters

R1910783 5
Casella Waste - Hyland
Hyland Facility - Routine Parameters

Cooler Receipt and Preservation Check Form

Project/Client Casella - Hyland Folder Number _____

Cooler received on 11/5/19 by: (D)

COURIER: ALS (UPS) ~~FEDEX~~ VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) N	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (Wet Ice) **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 11/5/19 Time: 1213 ID: IR#7 ~~IR#10~~ From: (Temp Blank) Sample Bottle

Observed Temp (°C)	1.1						
Correction Factor (°C)	-						
Corrected Temp (°C)							
Temp from:Type of bottle							
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by (D) on 11/5/19 at 1218
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 11/5/19 Time: 1504 by: (D)

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2	230018	HNO_3	✓		1118081					
≤2		H_2SO_4	✓		202739					
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522	✓		If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**						

Bottle lot numbers: 19-09-03 082919-2HHO, 093019-1BMC, 8081-02

Explain all Discrepancies/ Other Comments:

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: (D)

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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Analyst Summary report

Client: Casella Waste Systems (Hampden ME) **Service Request:** R1910783
Project: Hyland Facility - Routine Parameters/

Sample Name: MW34-1119 **Date Collected:** 11/4/19
Lab Code: R1910783-001 **Date Received:** 11/5/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		MROGERSON
351.2	NSMITH	GNITAJOUPPI
410.4		CWOODS
6010C	AKONZEL	KMCLAEN
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		STALARICO
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		CWOODS

Sample Name: DUP1-1119 **Date Collected:** 11/4/19
Lab Code: R1910783-002 **Date Received:** 11/5/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		MROGERSON
351.2	NSMITH	GNITAJOUPPI
410.4		CWOODS
6010C	AKONZEL	KMCLAEN
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		STALARICO
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		CWOODS

ALS Group USA, Corp.
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Analyst Summary report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910783
Project:	Hyland Facility - Routine Parameters/		

Sample Name:	MW48-1119	**Date Collected:**	11/4/19
Lab Code:	R1910783-003	**Date Received:**	11/5/19
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
350.1		MROGERSON
351.2	NSMITH	GNITAJOUPPI
410.4		CWOODS
6010C	AKONZEL	KMCLAEN
9056A		KAWONG
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		STALARICO
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		CWOODS

Sample Name:	GSS5-1119	**Date Collected:**	11/4/19
Lab Code:	R1910783-004	**Date Received:**	11/5/19
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
350.1		MROGERSON
351.2	NSMITH	GNITAJOUPPI
410.4		CWOODS
6010C	AKONZEL	KMCLAEN
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		STALARICO
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		CWOODS

INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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www.alsglobal.com

Metals

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910783
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/04/19 10:30
Sample Matrix:	Water	**Date Received:**	11/05/19 11:55
Sample Name:	MW34-1119	**Basis:**	NA
Lab Code:	R1910783-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/07/19 19:08	11/06/19	
Calcium, Total	6010C	**49400**	ug/L	1000	300	1	11/07/19 19:08	11/06/19	
Iron, Total	6010C	**200**	ug/L	100	20	1	11/07/19 19:08	11/06/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/07/19 19:08	11/06/19	
Magnesium, Total	6010C	**14700**	ug/L	1000	30	1	11/07/19 19:08	11/06/19	
Manganese, Total	6010C	**137**	ug/L	10	4	1	11/07/19 19:08	11/06/19	
Potassium, Total	6010C	**1300 J**	ug/L	2000	200	1	11/07/19 19:08	11/06/19	
Sodium, Total	6010C	**75400**	ug/L	1000	200	1	11/07/19 19:08	11/06/19	

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910783
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/04/19 10:40
Sample Matrix:	Water	**Date Received:**	11/05/19 11:55
Sample Name:	DUP1-1119	**Basis:**	NA
Lab Code:	R1910783-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/07/19 19:11	11/06/19	
Calcium, Total	6010C	**48400**	ug/L	1000	300	1	11/07/19 19:11	11/06/19	
Iron, Total	6010C	**190**	ug/L	100	20	1	11/07/19 19:11	11/06/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/07/19 19:11	11/06/19	
Magnesium, Total	6010C	**14500**	ug/L	1000	30	1	11/07/19 19:11	11/06/19	
Manganese, Total	6010C	**135**	ug/L	10	4	1	11/07/19 19:11	11/06/19	
Potassium, Total	6010C	**1300 J**	ug/L	2000	200	1	11/07/19 19:11	11/06/19	
Sodium, Total	6010C	**74000**	ug/L	1000	200	1	11/07/19 19:11	11/06/19	

ALS Group USA, Corp.
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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910783
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/04/19 12:00
Sample Matrix:	Water	**Date Received:**	11/05/19 11:55
Sample Name:	MW48-1119	**Basis:**	NA
Lab Code:	R1910783-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/07/19 19:15	11/06/19	
Calcium, Total	6010C	**158000**	ug/L	1000	300	1	11/07/19 19:15	11/06/19	
Iron, Total	6010C	**270**	ug/L	100	20	1	11/07/19 19:15	11/06/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/07/19 19:15	11/06/19	
Magnesium, Total	6010C	**48000**	ug/L	1000	30	1	11/07/19 19:15	11/06/19	
Manganese, Total	6010C	**43**	ug/L	10	4	1	11/07/19 19:15	11/06/19	
Potassium, Total	6010C	**3600**	ug/L	2000	200	1	11/07/19 19:15	11/06/19	
Sodium, Total	6010C	**33800**	ug/L	1000	200	1	11/07/19 19:15	11/06/19	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910783
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/04/19 12:25
Sample Matrix:	Water	**Date Received:**	11/05/19 11:55
Sample Name:	GSS5-1119	**Basis:**	NA
Lab Code:	R1910783-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/07/19 19:18	11/06/19	
Calcium, Total	6010C	**66500**	ug/L	1000	300	1	11/07/19 19:18	11/06/19	
Iron, Total	6010C	**140**	ug/L	100	20	1	11/07/19 19:18	11/06/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/07/19 19:18	11/06/19	
Magnesium, Total	6010C	**22000**	ug/L	1000	30	1	11/07/19 19:18	11/06/19	
Manganese, Total	6010C	**178**	ug/L	10	4	1	11/07/19 19:18	11/06/19	
Potassium, Total	6010C	**2800**	ug/L	2000	200	1	11/07/19 19:18	11/06/19	
Sodium, Total	6010C	**9300**	ug/L	1000	200	1	11/07/19 19:18	11/06/19	

General Chemistry

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910783
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/04/19 10:30
Sample Matrix:	Water	**Date Received:**	11/05/19 11:55
Sample Name:	MW34-1119	**Basis:**	NA
Lab Code:	R1910783-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**236**		mg/L	2.0	1.8	1	11/06/19 15:41	NA	
Ammonia as Nitrogen, undistilled	350.1	**0.318**		mg/L	0.050	0.003	1	11/08/19 20:35	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/06/19 08:33	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/06/19 09:49	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	11/09/19 04:09	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/10/19 14:47	NA	
Chloride	9056A	**21.3**		mg/L	2.0	0.5	10	11/06/19 09:49	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**184**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	0.2	10	11/06/19 09:49	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.29**		mg/L	0.20	0.10	1	11/08/19 12:13	11/07/19	
Phenolics, Total Recoverable	9066	**0.0014**	**J**	mg/L	0.0050	0.0010	1	11/11/19 21:16	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**384**		mg/L	10	9	1	11/07/19 11:15	NA	
Sulfate	9056A	**64.8**		mg/L	2.0	0.4	10	11/06/19 09:49	NA	

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910783
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/04/19 10:40
Sample Matrix:	Water	**Date Received:**	11/05/19 11:55
Sample Name:	DUP1-1119	**Basis:**	NA
Lab Code:	R1910783-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Q	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**236**		mg/L	2.0	1.8	1	11/06/19 16:00	NA	
Ammonia as Nitrogen, undistilled	350.1	**0.320**		mg/L	0.050	0.003	1	11/08/19 20:36	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/06/19 08:39	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/06/19 10:07	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	11/09/19 04:30	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/10/19 14:47	NA	
Chloride	9056A	**21.7**		mg/L	2.0	0.5	10	11/06/19 10:07	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**180**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	0.2	10	11/06/19 10:07	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.40**		mg/L	0.20	0.10	1	11/08/19 12:14	11/07/19	
Phenolics, Total Recoverable	9066	**0.0013**	**J**	mg/L	0.0050	0.0010	1	11/11/19 21:20	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**387**		mg/L	10	9	1	11/07/19 11:15	NA	
Sulfate	9056A	**65.9**		mg/L	2.0	0.4	10	11/06/19 10:07	NA	

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910783
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/04/19 12:00
Sample Matrix:	Water	**Date Received:**	11/05/19 11:55
Sample Name:	MW48-1119	**Basis:**	NA
Lab Code:	R1910783-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**215**		mg/L	2.0	1.8	1	11/06/19 16:06	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/08/19 20:37	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/06/19 08:32	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/06/19 10:13	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**0.7**	**J**	mg/L	1.0	0.5	1	11/09/19 04:51	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/10/19 14:47	NA	
Chloride	9056A	**15.0**		mg/L	2.0	0.5	10	11/06/19 10:13	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**593**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	0.2	10	11/06/19 10:13	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20	U	mg/L	0.20	0.10	1	11/08/19 12:15	11/07/19	
Phenolics, Total Recoverable	9066	**0.0015**	**J**	mg/L	0.0050	0.0010	1	11/11/19 21:25	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**815**		mg/L	10	9	1	11/07/19 11:15	NA	
Sulfate	9056A	**412**		mg/L	20	4	100	11/07/19 20:29	NA	

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910783
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/04/19 12:25
Sample Matrix:	Water	**Date Received:**	11/05/19 11:55
Sample Name:	GSS5-1119	**Basis:**	NA
Lab Code:	R1910783-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**208**		mg/L	2.0	1.8	1	11/06/19 16:12	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/08/19 20:38	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/06/19 08:31	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/06/19 10:19	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	11/09/19 05:12	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/10/19 14:47	NA	
Chloride	9056A	**13.6**		mg/L	2.0	0.5	10	11/06/19 10:19	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**257**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	0.2	10	11/06/19 10:19	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20	U	mg/L	0.20	0.10	1	11/08/19 12:15	11/07/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/11/19 21:29	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**313**		mg/L	10	9	1	11/07/19 11:15	NA	
Sulfate	9056A	**38.2**		mg/L	2.0	0.4	10	11/06/19 10:19	NA	

QC Summary Forms

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Metals

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910783
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1910783-MB		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0	U	ug/L	5.0	0.4	1	11/07/19 17:50	11/06/19	
Calcium, Total	6010C	1000	U	ug/L	1000	300	1	11/07/19 17:50	11/06/19	
Iron, Total	6010C	100	U	ug/L	100	20	1	11/07/19 17:50	11/06/19	
Lead, Total	6010C	50	U	ug/L	50	3	1	11/07/19 17:50	11/06/19	
Magnesium, Total	6010C	1000	U	ug/L	1000	30	1	11/07/19 17:50	11/06/19	
Manganese, Total	6010C	10	U	ug/L	10	4	1	11/07/19 17:50	11/06/19	
Potassium, Total	6010C	2000	U	ug/L	2000	200	1	11/07/19 17:50	11/06/19	
Sodium, Total	6010C	1000	U	ug/L	1000	200	1	11/07/19 17:50	11/06/19	

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QA/QC Report

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request: R1910783
Date Analyzed: 11/07/19

Duplicate Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

			Lab Control Sample		Duplicate Lab Control Sample					
			R1910783-LCS		R1910783-DLCS					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Cadmium, Total	6010C	52.8	50.0	106	52.4	50.0	105	80-120	<1	20
Calcium, Total	6010C	1870	2000	94	1840	2000	92	80-120	2	20
Iron, Total	6010C	997	1000	100	988	1000	99	80-120	<1	20
Lead, Total	6010C	518	500	104	514	500	103	80-120	<1	20
Magnesium, Total	6010C	1990	2000	100	1970	2000	99	80-120	1	20
Manganese, Total	6010C	520	500	104	515	500	103	80-120	<1	20
Potassium, Total	6010C	20100	20000	101	20000	20000	100	80-120	<1	20
Sodium, Total	6010C	20300	20000	102	20100	20000	101	80-120	1	20

General Chemistry

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910783
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1910783-MB1		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	U	mg/L	2.0	1.8	1	11/06/19 11:30	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/08/19 20:02	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/06/19 17:20	NA	
Bromide	9056A	0.10	U	mg/L	0.10	0.04	1	11/06/19 09:37	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	11/08/19 22:56	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/10/19 14:47	NA	
Chloride	9056A	0.20	U	mg/L	0.20	0.05	1	11/06/19 09:37	NA	
Nitrate as Nitrogen	9056A	0.10	U	mg/L	0.10	0.02	1	11/06/19 09:37	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20	U	mg/L	0.20	0.10	1	11/08/19 12:04	11/07/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/11/19 19:56	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	10	U	mg/L	10	9	1	11/07/19 11:15	NA	
Sulfate	9056A	0.20	U	mg/L	0.20	0.04	1	11/06/19 09:37	NA	

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910783
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1910783-MB2		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	U	mg/L	2.0	1.8	1	11/06/19 15:50	
Sulfate	9056A	0.20	U	mg/L	0.20	0.04	1	11/07/19 17:02	

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QA/QC Report

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request:R1910783
Date Collected:11/04/19
Date Received:11/05/19
Date Analyzed:11/6/19

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: MW34-1119
Lab Code: R1910783-001

Units:mg/L
Basis:NA

			Matrix Spike R1910783-001MS			Duplicate Matrix Spike R1910783-001DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Bromide	9056A	1.0 U	10.3	10.0	103	10.3	10.0	103	80-120	<1	15
Chloride	9056A	21.3	42.3	20.0	105	42.2	20.0	104	80-120	<1	15
Sulfate	9056A	64.8	83.3	20.0	92	83.5	20.0	94	80-120	<1	15
Nitrate as Nitrogen	9056A	1.0 U	10.1	10.0	101	10.1	10.0	101	80-120	<1	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request: R1910783
Date Analyzed: 11/06/19 - 11/11/19

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1910783-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	16.4	20.0	82	80-120
Ammonia as Nitrogen, undistilled	350.1	0.251	0.250	101	90-110
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	185	198	93	85-115
Bromide	9056A	1.01	1.00	101	80-120
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.4	10.0	104	80-121
Chemical Oxygen Demand, Total	410.4	50.0	50.0	100	90-110
Chloride	9056A	2.03	2.00	102	80-120
Nitrate as Nitrogen	9056A	1.01	1.00	101	80-120
Nitrogen, Total Kjeldahl (TKN)	351.2	2.31	2.50	92	90-110
Phenolics, Total Recoverable	9066	0.0403	0.0400	101	85-115
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	900	914	98	90-110
Sulfate	9056A	2.01	2.00	101	80-120

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QA/QC Report

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request: R1910783
Date Analyzed: 11/06/19 - 11/07/19

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1910783-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	19.2	20.0	96	80-120
Sulfate	9056A	2.02	2.00	101	80-120

November 19, 2019 Service Request No:R1910844

Russell Anderson
Casella Waste - Hyland
4 Chenell Drive
Suite 200
Concord, NH 03301

Laboratory Results for: Hyland Facility - Routine Parameters

Dear Russell,

Enclosed are the results of the sample(s) submitted to our laboratory November 06, 2019
For your reference, these analyses have been assigned our service request number **R1910844.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

CC: Jon Brandes

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Narrative Documents

ALS Environmental—Rochester Laboratory
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Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request: R1910844
Date Received: 11/06/2019 - 11/08/2019

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Twenty two water samples were received for analysis at ALS Environmental on 11/06/2019 - 11/08/2019. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

Method 6010C, 11/14/2019: The control limits for matrix spike recovery of one or more of the spiked analytes are not applicable and have been flagged with a "#". The concentration of the analyte(s) in the parent sample is more than 4x the spike concentration. No further corrective action was required.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by _____ Date 11/19/2019

SAMPLE DETECTION SUMMARY

CLIENT ID: MW26-1119			Lab ID: R1910844-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	379		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon, Total Organic (TOC)	8.0		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	23.2		3.8	5.0	mg/L	410.4
Chloride	99.5		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	588			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	0.7	J	0.2	1.0	mg/L	9056A
Nitrogen, Total Kjeldahl (TKN)	0.45		0.10	0.20	mg/L	351.2
Solids, Total Dissolved (TDS)	804		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	165		0.8	4.0	mg/L	9056A
Calcium, Total	167000		300	1000	ug/L	6010C
Iron, Total	130		20	100	ug/L	6010C
Magnesium, Total	41700		30	1000	ug/L	6010C
Manganese, Total	6	J	4	10	ug/L	6010C
Potassium, Total	1900	J	200	2000	ug/L	6010C
Sodium, Total	60100		200	1000	ug/L	6010C

CLIENT ID: MW14-1119			Lab ID: R1910844-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	139		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Chemical Oxygen Demand, Total	3.9	J	3.8	5.0	mg/L	410.4
Chloride	2.7		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	152			6.62	mg/L	SM 2340 B-1997 (2011)
Solids, Total Dissolved (TDS)	193		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	19.8		0.4	2.0	mg/L	9056A
Calcium, Total	42800		300	1000	ug/L	6010C
Iron, Total	30	J	20	100	ug/L	6010C
Magnesium, Total	10900		30	1000	ug/L	6010C
Potassium, Total	1900	J	200	2000	ug/L	6010C
Sodium, Total	3400		200	1000	ug/L	6010C

CLIENT ID: MW40A-1119			Lab ID: R1910844-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Ammonia as Nitrogen, undistilled	0.006	J	0.003	0.050	mg/L	350.1
Carbon, Total Organic (TOC)	1.0	J	0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	4.2	J	3.8	5.0	mg/L	410.4
Chloride	3.6		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	1400			6.62	mg/L	SM 2340 B-1997 (2011)

SAMPLE DETECTION SUMMARY

CLIENT ID: MW40A-1119			Lab ID: R1910844-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Nitrate as Nitrogen	0.3	J	0.2	1.0	mg/L	9056A
Nitrogen, Total Kjeldahl (TKN)	0.22		0.10	0.20	mg/L	351.2
Solids, Total Dissolved (TDS)	2000		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	1180		8	40	mg/L	9056A
Calcium, Total	298000		3000	10000	ug/L	6010C
Iron, Total	50	J	20	100	ug/L	6010C
Magnesium, Total	160000		30	1000	ug/L	6010C
Manganese, Total	7	J	4	10	ug/L	6010C
Potassium, Total	9300		200	2000	ug/L	6010C
Sodium, Total	58200		200	1000	ug/L	6010C

CLIENT ID: MW41A-1119			Lab ID: R1910844-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	365		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon, Total Organic (TOC)	2.1		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	7.7		3.8	5.0	mg/L	410.4
Chloride	3.4		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	2420			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	0.6	J	0.2	1.0	mg/L	9056A
Nitrogen, Total Kjeldahl (TKN)	0.11	J	0.10	0.20	mg/L	351.2
Phenolics, Total Recoverable	0.0012	J	0.0010	0.0050	mg/L	9066
Solids, Total Dissolved (TDS)	3610		18	20	mg/L	SM 2540 C-1997 (2011)
Sulfate	2330		16	80	mg/L	9056A
Calcium, Total	554000		3000	10000	ug/L	6010C
Iron, Total	190		20	100	ug/L	6010C
Magnesium, Total	251000		30	1000	ug/L	6010C
Manganese, Total	13		4	10	ug/L	6010C
Potassium, Total	13200		200	2000	ug/L	6010C
Sodium, Total	110000		200	1000	ug/L	6010C

CLIENT ID: MW42A-1119			Lab ID: R1910844-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	364		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon, Total Organic (TOC)	1.1		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	4.2	J	3.8	5.0	mg/L	410.4
Hardness, Total as CaCO3	2080			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrogen, Total Kjeldahl (TKN)	0.18	J	0.10	0.20	mg/L	351.2
Calcium, Total	514000		3000	10000	ug/L	6010C

SAMPLE DETECTION SUMMARY

CLIENT ID: MW42A-1119			Lab ID: R1910844-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Iron, Total	5610		20	100	ug/L	6010C
Magnesium, Total	192000		30	1000	ug/L	6010C
Manganese, Total	261		4	10	ug/L	6010C
Potassium, Total	17900		200	2000	ug/L	6010C
Sodium, Total	98900		200	1000	ug/L	6010C

CLIENT ID: MW45A-1119			Lab ID: R1910844-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	232		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.262		0.003	0.050	mg/L	350.1
Biochemical Oxygen Demand (BOD)	14.6			2.0	mg/L	SM 5210 B-2001 (2011)
Carbon, Total Organic (TOC)	15.9		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	47.7		3.8	5.0	mg/L	410.4
Chloride	12.6		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	658			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	0.4	J	0.2	1.0	mg/L	9056A
Nitrogen, Total Kjeldahl (TKN)	0.44		0.10	0.20	mg/L	351.2
Solids, Total Dissolved (TDS)	1110		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	572		4	20	mg/L	9056A
Calcium, Total	189000		300	1000	ug/L	6010C
Iron, Total	2630		20	100	ug/L	6010C
Magnesium, Total	45300		30	1000	ug/L	6010C
Manganese, Total	1850		4	10	ug/L	6010C
Potassium, Total	9200		200	2000	ug/L	6010C
Sodium, Total	84000		200	1000	ug/L	6010C

CLIENT ID: MW34A-1119			Lab ID: R1910844-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	224		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.182		0.003	0.050	mg/L	350.1
Biochemical Oxygen Demand (BOD)	2.4			2.0	mg/L	SM 5210 B-2001 (2011)
Carbon, Total Organic (TOC)	3.7		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	12.2		3.8	5.0	mg/L	410.4
Chloride	2.7		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	1300			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	0.4	J	0.2	1.0	mg/L	9056A
Nitrogen, Total Kjeldahl (TKN)	0.32		0.10	0.20	mg/L	351.2

SAMPLE DETECTION SUMMARY

CLIENT ID: MW34A-1119	Lab ID: R1910844-007					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Solids, Total Dissolved (TDS)	2050		18	20	mg/L	SM 2540 C-1997 (2011)
Sulfate	1350		12	60	mg/L	9056A
Calcium, Total	333000		3000	10000	ug/L	6010C
Iron, Total	4340		20	100	ug/L	6010C
Magnesium, Total	113000		30	1000	ug/L	6010C
Manganese, Total	1970		4	10	ug/L	6010C
Potassium, Total	12400		200	2000	ug/L	6010C
Sodium, Total	92200		200	1000	ug/L	6010C

CLIENT ID: MW37A-1119	Lab ID: R1910844-008					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	353		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon, Total Organic (TOC)	1.1		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	6.3		3.8	5.0	mg/L	410.4
Chloride	1.7	J	0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	894			6.62	mg/L	SM 2340 B-1997 (2011)
Phenolics, Total Recoverable	0.0011	BJ	0.0010	0.0050	mg/L	9066
Solids, Total Dissolved (TDS)	1270		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	639		4	20	mg/L	9056A
Calcium, Total	217000		3000	10000	ug/L	6010C
Iron, Total	200		20	100	ug/L	6010C
Magnesium, Total	85500		30	1000	ug/L	6010C
Manganese, Total	23		4	10	ug/L	6010C
Potassium, Total	12000		200	2000	ug/L	6010C
Sodium, Total	43300		200	1000	ug/L	6010C

CLIENT ID: MW36A-1119	Lab ID: R1910844-009					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	406		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon, Total Organic (TOC)	2.0		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Hardness, Total as CaCO3	2000			6.62	mg/L	SM 2340 B-1997 (2011)
Phenolics, Total Recoverable	0.0015	BJ	0.0010	0.0050	mg/L	9066
Calcium, Total	473000		3000	10000	ug/L	6010C
Iron, Total	300		20	100	ug/L	6010C
Magnesium, Total	199000		30	1000	ug/L	6010C
Manganese, Total	16		4	10	ug/L	6010C
Potassium, Total	11700		200	2000	ug/L	6010C
Sodium, Total	76100		200	1000	ug/L	6010C

SAMPLE DETECTION SUMMARY

CLIENT ID: MW36A-1119 — **Lab ID: R1910844-009**

CLIENT ID: GSS2GH-1119 — **Lab ID: R1910844-010**

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	340		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.246		0.003	0.050	mg/L	350.1
Carbon, Total Organic (TOC)	2.8		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	10.5		3.8	5.0	mg/L	410.4
Chloride	7.6		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	784			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	1.4		0.2	1.0	mg/L	9056A
Nitrogen, Total Kjeldahl (TKN)	0.40		0.10	0.20	mg/L	351.2
Phenolics, Total Recoverable	0.0013	BJ	0.0010	0.0050	mg/L	9066
Solids, Total Dissolved (TDS)	1090		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	494		4	20	mg/L	9056A
Calcium, Total	177000		3000	10000	ug/L	6010C
Iron, Total	2430		20	100	ug/L	6010C
Magnesium, Total	83200		30	1000	ug/L	6010C
Manganese, Total	979		4	10	ug/L	6010C
Potassium, Total	8000		200	2000	ug/L	6010C
Sodium, Total	23300		200	1000	ug/L	6010C

CLIENT ID: GSS1-1119 — **Lab ID: R1910844-011**

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	146		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon, Total Organic (TOC)	2.5		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	11.5		3.8	5.0	mg/L	410.4
Chloride	9.1		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	180			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	0.5	J	0.2	1.0	mg/L	9056A
Nitrogen, Total Kjeldahl (TKN)	0.10	J	0.10	0.20	mg/L	351.2
Solids, Total Dissolved (TDS)	243		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	36.0		0.4	2.0	mg/L	9056A
Calcium, Total	54800		300	1000	ug/L	6010C
Iron, Total	790		20	100	ug/L	6010C
Magnesium, Total	10500		30	1000	ug/L	6010C
Manganese, Total	25		4	10	ug/L	6010C
Potassium, Total	3300		200	2000	ug/L	6010C
Sodium, Total	5800		200	1000	ug/L	6010C

SAMPLE DETECTION SUMMARY

CLIENT ID: MW19-1119			Lab ID: R1910844-012			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	217		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon, Total Organic (TOC)	1.2		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	23.5		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	260			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	0.7	J	0.2	1.0	mg/L	9056A
Solids, Total Dissolved (TDS)	310		10	11	mg/L	SM 2540 C-1997 (2011)
Sulfate	29.4		0.4	2.0	mg/L	9056A
Calcium, Total	65700		300	1000	ug/L	6010C
Iron, Total	430	B	20	100	ug/L	6010C
Magnesium, Total	23200		30	1000	ug/L	6010C
Manganese, Total	28		4	10	ug/L	6010C
Potassium, Total	3500		200	2000	ug/L	6010C
Sodium, Total	16400		200	1000	ug/L	6010C

CLIENT ID: MW37-1119			Lab ID: R1910844-013			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	213		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Chloride	11.6		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	261			6.62	mg/L	SM 2340 B-1997 (2011)
Solids, Total Dissolved (TDS)	307		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	44.5		0.4	2.0	mg/L	9056A
Calcium, Total	67100		300	1000	ug/L	6010C
Iron, Total	60	BJ	20	100	ug/L	6010C
Magnesium, Total	22600		30	1000	ug/L	6010C
Potassium, Total	2300		200	2000	ug/L	6010C
Sodium, Total	7500		200	1000	ug/L	6010C

CLIENT ID: MW47A-1119			Lab ID: R1910844-014			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	246		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.180		0.003	0.050	mg/L	350.1
Biochemical Oxygen Demand (BOD)	2.0			2.0	mg/L	SM 5210 B-2001 (2011)
Carbon, Total Organic (TOC)	1.6		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	4.9	J	3.8	5.0	mg/L	410.4
Chloride	3.1		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	819			6.62	mg/L	SM 2340 B-1997 (2011)

SAMPLE DETECTION SUMMARY

CLIENT ID: MW47A-1119			Lab ID: R1910844-014			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Nitrate as Nitrogen	0.4	J	0.2	1.0	mg/L	9056A
Nitrogen, Total Kjeldahl (TKN)	0.31		0.10	0.20	mg/L	351.2
Solids, Total Dissolved (TDS)	1230		10	11	mg/L	SM 2540 C-1997 (2011)
Sulfate	703		4	20	mg/L	9056A
Calcium, Total	208000		3000	10000	ug/L	6010C
Iron, Total	1250		20	100	ug/L	6010C
Magnesium, Total	72500		30	1000	ug/L	6010C
Manganese, Total	1480		4	10	ug/L	6010C
Potassium, Total	6100		200	2000	ug/L	6010C
Sodium, Total	52600		200	1000	ug/L	6010C

CLIENT ID: MW40A-1119			Lab ID: R1910844-015			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	379		1.8	2.0	mg/L	SM 2320 B-1997 (2011)

CLIENT ID: EB1-1119			Lab ID: R1910844-017			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	2.4		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Chemical Oxygen Demand, Total	4.2	J	3.8	5.0	mg/L	410.4
Nitrogen, Total Kjeldahl (TKN)	0.71		0.10	0.20	mg/L	351.2
Solids, Total Dissolved (TDS)	9	J	9	10	mg/L	SM 2540 C-1997 (2011)
Iron, Total	20	BJ	20	100	ug/L	6010C

CLIENT ID: MW31-1119			Lab ID: R1910844-018			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	91.2		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Chloride	53.0		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	185			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	0.6	J	0.2	1.0	mg/L	9056A
Solids, Total Dissolved (TDS)	256		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	56.2		0.4	2.0	mg/L	9056A
Calcium, Total	53500		300	1000	ug/L	6010C
Iron, Total	60	BJ	20	100	ug/L	6010C
Magnesium, Total	12500		30	1000	ug/L	6010C
Potassium, Total	1800	J	200	2000	ug/L	6010C
Sodium, Total	11600		200	1000	ug/L	6010C

SAMPLE DETECTION SUMMARY

CLIENT ID: MW40-1119	Lab ID: R1910844-019					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	187		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Chloride	10.9		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	234			6.62	mg/L	SM 2340 B-1997 (2011)
Solids, Total Dissolved (TDS)	284		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	48.8		0.4	2.0	mg/L	9056A
Calcium, Total	48400		300	1000	ug/L	6010C
Iron, Total	240	B	20	100	ug/L	6010C
Magnesium, Total	27400		30	1000	ug/L	6010C
Manganese, Total	6	J	4	10	ug/L	6010C
Potassium, Total	2900		200	2000	ug/L	6010C
Sodium, Total	9500		200	1000	ug/L	6010C

CLIENT ID: MW42A-1119	Lab ID: R1910844-020					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Chloride	3.9		0.5	2.0	mg/L	9056A
Nitrate as Nitrogen	0.4	J	0.2	1.0	mg/L	9056A
Solids, Total Dissolved (TDS)	3170		18	20	mg/L	SM 2540 C-1997 (2011)
Sulfate	1950		12	60	mg/L	9056A

CLIENT ID: MW36A-1119	Lab ID: R1910844-021					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Chemical Oxygen Demand, Total	6.7		3.8	5.0	mg/L	410.4
Chloride	3.0		0.5	2.0	mg/L	9056A
Solids, Total Dissolved (TDS)	2990		18	20	mg/L	SM 2540 C-1997 (2011)
Sulfate	1800		12	60	mg/L	9056A

CLIENT ID: DB1-1119	Lab ID: R1910844-022					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	76.4		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.170		0.003	0.050	mg/L	350.1
Carbon, Total Organic (TOC)	2.8		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	9.8		3.8	5.0	mg/L	410.4
Chloride	4.9		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	103			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	0.6	J	0.2	1.0	mg/L	9056A
Nitrogen, Total Kjeldahl (TKN)	0.77		0.10	0.20	mg/L	351.2
Solids, Total Dissolved (TDS)	203		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	18.7		0.4	2.0	mg/L	9056A

SAMPLE DETECTION SUMMARY

CLIENT ID: DB1-1119	Lab ID: R1910844-022					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium, Total	30600		300	1000	ug/L	6010C
Iron, Total	8950		20	100	ug/L	6010C
Lead, Total	5	J	3	50	ug/L	6010C
Magnesium, Total	6400		30	1000	ug/L	6010C
Manganese, Total	221		4	10	ug/L	6010C
Potassium, Total	7600		200	2000	ug/L	6010C
Sodium, Total	3200		200	1000	ug/L	6010C

Sample Receipt Information

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SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1910844-001	MW26-1119	11/5/2019	0810
R1910844-002	MW14-1119	11/5/2019	0845
R1910844-003	MW40A-1119	11/5/2019	0910
R1910844-004	MW41A-1119	11/5/2019	0935
R1910844-005	MW42A-1119	11/5/2019	1005
R1910844-006	MW45A-1119	11/5/2019	1030
R1910844-007	MW34A-1119	11/5/2019	1100
R1910844-008	MW37A-1119	11/5/2019	1135
R1910844-009	MW36A-1119	11/5/2019	1205
R1910844-010	GSS2GH-1119	11/5/2019	1325
R1910844-011	GSS1-1119	11/5/2019	1415
R1910844-012	MW19-1119	11/6/2019	0905
R1910844-013	MW37-1119	11/6/2019	1140
R1910844-014	MW47A-1119	11/6/2019	1325
R1910844-015	MW40A-1119	11/6/2019	1410
R1910844-016	MW42A-1119	11/6/2019	1425
R1910844-017	EB1-1119	11/7/2019	0800
R1910844-018	MW31-1119	11/7/2019	1010
R1910844-019	MW40-1119	11/7/2019	1210
R1910844-020	MW42A-1119	11/7/2019	1235
R1910844-021	MW36A-1119	11/7/2019	1310
R1910844-022	DB1-1119	11/7/2019	1330

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CHAIN of CUSTODY

Page 1 of 1

Client: Casella/On-Site
6653 Herdman Rd
Angelica NY. 14709

Project: Hyland - Routine Parameters

Method of Shipment: UPS

Project Manager: Russ Anderson/Jon Brandes

Telephone No.: 585-593-1824

Email: jonb@on-sitehs.com

Special Detection Limit/Reporting

PDF to Russ and On-Site, and EDD to On-Site.

Sample I.D.	Lab Sample No.	No. of Containers	Matrix: Soil	Water	Air	Other	Prsv.: Yes	No	Sampling Date	Sampling Time	BOD (NP)	Phenols & TOC (H2SO4)	Alkalinity (NP)	NH3, TKN, COD (H2SO4)	T-Metals, Hardness (Routine) (HNO3)	TDS, NO3, Br, Cl, SO4 (NP)
MW26-1119		6		X			X	X	11-5-19	0810	X	X	X	X	X	X
MW14-1119		6		X			X	X	11-5-19	0845	X	X	X	X	X	X
MW40A-1119		4		X			X	X	11-5-19	0910		X		X	X	X
MW41A-1119		5		X			X	X	11-5-19	0935		X	X	X	X	X
MW42A-1119		4		X			X	X	11-5-19	1005		X	X	X	X	
MW45A-1119		6		X			X	X	11-5-19	1030	X	X	X	X	X	X
MW34A-1119		6		X			X	X	5-11-19	1100	X	X	X	X	X	X
MW37A-1119		6		X			X	X	5-11-19	1135	X	X	X	X	X	X
MW36A-1119		3		X			X	X	5-11-19	1205		X	X		X	
GSS2GH-1119		6		X			X	X	5-11-19	1325	X	X	X	X	X	X
GSS1-1119		6		X			X	X	5-11-19	1415	X	X	X	X	X	X

REMARKS

Sample Received Intact: Yes No

Temperature received: Ice No ice

	Date	Time		
Relinq. by sampler (Sign & Print Name) Kevin Dye / Kevin Dye	11-5-19	1530	Received by (Sign & Print Name)	
Relinquished by	Date	Time	Received by	
Relinquished by	Date	Time	Received by	
Relinquished by	Date	Time	Received by laboratory	Date 11/6/19 Time 1145

Lab Work No.

R1910844 5
Casella Waste - Hyland
Hyland Facility - Routine Parameters

Cooler Receipt and Preservation Check Form

R1910844 5
Casella Waste - Hyland
Hyland Facility - Routine Parameters

Project/Client Casella Folder Number

Cooler received on 11/6/19 by: [illegible]

COURIER: ALS (UPS) FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y)	N
2	**Custody papers** properly completed (ink, signed)?	(Y)	N
3	Did all bottles arrive in good **condition** (unbroken)?	(Y)	N
4	Circle: (Wet Ice) **Dry Ice Gel packs** present?	(Y)	N

5a	**Perchlorate** samples have required headspace?	Y N	(NA)
5b	Did VOA vials, Alk, or Sulfide have sig* **bubbles**?	Y (N)	NA
6	Where did the bottles originate?	(ALS/ROC)	CLIENT
7	Soil VOA received as: Bulk Encore 5035set		(NA)

3. Temperature Readings Date: 11/6/19 Time: 1212 ID: IR#7 (IR#10) From: (Temp Blank) Sample Bottle

Observed Temp (°C)	1.6	4.2					
Within 0-6°C?	(Y) N	(Y) N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by [illegible] on 11/6/19 at 1216
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 11/6/19 Time: 1925 by: [illegible]

9.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES)	NO
10.	Did all bottle labels and tags agree with custody papers?	(YES)	NO
11.	Were correct containers used for the tests indicated?	(YES)	NO
12.	Were 5035 vials acceptable (no extra labels, not leaking)?	YES	NO (N/A)
13.	Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized		Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2	230918	HNO_3	✓		1118081					
≤2	↓	H_2SO_4	✓		902739	10/20				
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, (Phenol), 625, 608pest, 522	✓		If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: A-09-03, 072219-1BMC, 082619-2AAO, 80819-02
Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: [illegible]
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm ; WC >1 in. diameter

CHAIN of CUSTODY

Page 1 of 1

ALS-Environmental
1565 Jefferson Rd, Bldg 300, Suite 360
Rochester, NY 14623
585.288.5380

Client: Casella/On-Site
6653 Herdman Rd
Angelica NY. 14709

Project Manager: Russ Anderson/Jon Brandes

Project: Hyland - Routine Parameters

Telephone No.: 585-593-1824

Email: jonb@on-sitehs.com

Method of Shipment: UPS

Special Detection Limit/Reporting

PDF to Russ and On-Site, and EDD to On-Site.

Sample I.D.	Lab Sample No.	No. of Containers	Matrix: Soil	Water	Air	Other	Prsv.: Yes	No	Sampling Date	Sampling Time	BOD (NP)	Phenols & TOC (H2SO4)	Alkalinity (NP)	NH3, TKN, COD (H2SO4)	T-Metals, Hardness (Routine) (HNO3)	TDS, NO3, Br, Cl, SO4 (NP)
MW19-1119		12		X			X	X	11-6-19	0905	X	X	X	X	X	X
MW37-1119		6		X			X	X	11-6-19	1140	X	X	X	X	X	X
MW47A-1119		4		X			X	X	11-6-19	1325	X	X	X	X	X	X
MW40A-1119		1		X				X	11-6-19	1410			X			
MW42A-1119		1		X				X	11-6-19	1425	X					

REMARKS

- MS/MSD
- minimal Sample

Sample Received Intact: Yes No

Temperature received: Ice No ice

Relinq. by sampler (Sign & Print Name)	Date	Time	Received by (Sign & Print Name)
Kevin Dye/Kevin Dye	11-6-19	1530	
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by laboratory: Date 11/7/19 Time 1215

Lab Work No.

R1910844 5
Casella Waste - Hyland
Hyland Facility - Routine Parameters

Cooler Receipt and Preservation Check Form

R1910844 5
Casella Waste - Hyland
Hyland Facility - Routine Parameters

Project/Client Casella - Hyland Folder Number .

Cooler received on 11/7/19 by: @

COURIER: ALS (UPS) FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) N	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (**Wet Ice**) **Dry Ice** **Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 11/7/19 Time: 1240 ID: IR#7 (IR#10) From: (Temp Blank) Sample Bottle

Observed Temp (°C)	1.0						
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by @ on 11/7/19 at 1248
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 11/8/19 Time: 1535 by: dw

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? ~~YES~~ NO
10. Did all bottle labels and tags agree with custody papers? ~~YES~~ NO
11. Were correct containers used for the tests indicated? ~~YES~~ NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO ~~N/A~~
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated ~~N/A~~

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2	730018	HNO_3	✓		1118081	10/20				
≤2	↓	H_2SO_4	✓		202739	↓				
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**	dw 11/8/19					

Bottle lot numbers: 19-09-03, 093019-13MC, 0629-062619-2MC, 80819-07

Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: dw

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

CHAIN of CUSTODY

Page 1 of 1

ALS-Environmental
1565 Jefferson Rd, Bldg 300, Suite 360
Rochester, NY 14623
585.288.5380

Client: Casella/On-Site
6653 Herdman Rd
Angelica NY. 14709

Project Manager: Russ Anderson/Jon Brandes

Project: Hyland - Routine Parameters

Telephone No.: 585-593-1824

Email: jonb@on-sitehs.com

Method of Shipment: UPS

Special Detection Limit/Reporting

PDF to Russ and On-Site, and EDD to On-Site.

Sample I.D.	Lab Sample No.	No. of Containers	Matrix: Soil	Water	Air	Other	Prsv.: Yes	No	Sampling Date	Sampling Time	BOD (NP)	Phenols & TOC (H2SO4)	Alkalinity (NP)	NH3, TKN, COD (H2SO4)	T-Metals, Hardness (Routine) (HNO3)	TDS, NO3, Br, Cl, SO4 (NP)
EB1-1119		6		X			X	X	11-7-19	0800	X	X	X	X	X	X
MW31-1119		6		X			X	X	11-7-19	1010	X	X	X	X	X	X
MW40-1119		6		X			X	X	11-7-19	1210	X	X	X	X	X	X
MW42A-1119		1		X				X	11-7-19	1235						X
MW36A-1119		2		X			X	X	11-7-19	1310				X		X
DB1-1119		6		X			X	X	11-7-19	1330	X	X	X	X	X	X

REMARKS: minimal sample

Sample Received Intact: Yes No

Temperature received: Ice No ice

	Date	Time	
Reling. by sampler (Sign & Print Name) Kevin Dye / Kevin Dye	11-7-19	1500	Received by (Sign & Print Name)
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by laboratory — Date 11/8/19 Time 1210

Lab Work No.

R1910844 5
Casella Waste - Hyland
Hyland Facility - Routine Parameters

Cooler Receipt and Preservation Check Form

R1910844 5
Casella Waste - Hyland
Hyland Facility - Routine Parameters

Project/Client Casella Folder Number

Cooler received on 11/8/19 by: DW

COURIER: ALS (UPS) FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y)	N
2	**Custody papers** properly completed (ink, signed)?	(Y)	N
3	Did all bottles arrive in good **condition** (unbroken)?	(Y)	N
4	Circle: ~~Wet Ice~~ **Dry Ice Gel packs** present?	(Y)	N

5a	**Perchlorate** samples have required headspace?	Y	N	(NA)
5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y	(N)	NA
6	Where did the bottles originate?	ALS/ROC	CLIENT	
7	Soil VOA received as:	Bulk	Encore	5035set (NA)

8. Temperature Readings Date: 11/8/19 Time: 1215 ID: IR#7 (IR#10) From: Temp Blank ~~Sample Bottle~~

Observed Temp (°C)	1.0°						
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-007 by DW on 11/8/19 at 1215
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 11/10/19 Time: 1115 by: DW

9.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES)	NO	
10.	Did all bottle labels and tags agree with custody papers?	(YES)	NO	
11.	Were correct containers used for the tests indicated?	(YES)	NO	
12.	Were 5035 vials acceptable (no extra labels, not leaking)?	YES	NO	(N/A)
13.	Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized		Tedlar® Bags Inflated	(N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2	230018	HNO_3	✓		1118081	10/20				
≤2	↓	H_2SO_4	✓		707739	↓				
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522	✓		If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**						

Bottle lot numbers: 093019-1BAC, 19-09-03, 082619-ZHAC, 8099-4
Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: DW
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Casella Waste Systems (Hampden ME) **Service Request:** R1910844
Project: Hyland Facility - Routine Parameters/

Sample Name: MW26-1119 **Date Collected:** 11/5/19
Lab Code: R1910844-001 **Date Received:** 11/6/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		MROGERSON
351.2	MROGERSON	GNITAJOUPPI
410.4		KMENGS
6010C	AKONZEL	NMANSEN
9056A		KWONG
9056A		KAWONG
9066		BBOWE
SM 2320 B-1997(2011)		STALARICO
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		CWOODS

Sample Name: MW14-1119 **Date Collected:** 11/5/19
Lab Code: R1910844-002 **Date Received:** 11/6/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		MROGERSON
351.2	MROGERSON	GNITAJOUPPI
410.4		KMENGS
6010C	AKONZEL	NMANSEN
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		STALARICO
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		CWOODS

Client: Casella Waste Systems (Hampden ME) **Service Request:** R1910844
Project: Hyland Facility - Routine Parameters/

Sample Name: MW40A-1119 **Date Collected:** 11/5/19
Lab Code: R1910844-003 **Date Received:** 11/6/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		MROGERSON
351.2	MROGERSON	GNITAJOUPPI
410.4		KMENGS
6010C	AKONZEL	NMANSEN
6010C	AKONZEL	KMCLAEN
9056A		KAWONG
9056A		KWONG
9066		BBOWE
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		CWOODS

Sample Name: MW41A-1119 **Date Collected:** 11/5/19
Lab Code: R1910844-004 **Date Received:** 11/6/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		MROGERSON
351.2	MROGERSON	GNITAJOUPPI
410.4		KMENGS
6010C	AKONZEL	KMCLAEN
6010C	AKONZEL	NMANSEN
9056A		KWONG
9056A		KAWONG
9066		BBOWE
SM 2320 B-1997(2011)		STALARICO
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		KMENGS
SM 5310 C-2000(2011)		CWOODS

Client: Casella Waste Systems (Hampden ME) **Service Request:** R1910844
Project: Hyland Facility - Routine Parameters/

Sample Name: MW42A-1119 **Date Collected:** 11/5/19
Lab Code: R1910844-005 **Date Received:** 11/6/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		MROGERSON
351.2	MROGERSON	GNITAJOUPPI
410.4		KMENGS
6010C	AKONZEL	NMANSEN
6010C	AKONZEL	KMCLAEN
9066		BBOWE
SM 2320 B-1997(2011)		STALARICO
SM 5310 C-2000(2011)		CWOODS

Sample Name: MW45A-1119 **Date Collected:** 11/5/19
Lab Code: R1910844-006 **Date Received:** 11/6/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		MROGERSON
351.2	MROGERSON	GNITAJOUPPI
410.4		KMENGS
6010C	AKONZEL	NMANSEN
9056A		KAWONG
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		STALARICO
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		KMENGS
SM 5310 C-2000(2011)		CWOODS

Sample Name: MW34A-1119 **Date Collected:** 11/5/19
Lab Code: R1910844-007 **Date Received:** 11/6/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		MROGERSON

Client: Casella Waste Systems (Hampden ME) **Service Request:** R1910844
Project: Hyland Facility - Routine Parameters/

Sample Name: MW34A-1119 **Date Collected:** 11/5/19
Lab Code: R1910844-007 **Date Received:** 11/6/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
351.2	MROGERSON	GNITAJOUPPI
410.4		KMENGS
6010C	AKONZEL	KMCLAEN
6010C	AKONZEL	NMANSEN
9056A		KAWONG
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		STALARICO
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		KMENGS
SM 5310 C-2000(2011)		CWOODS

Sample Name: MW37A-1119 **Date Collected:** 11/5/19
Lab Code: R1910844-008 **Date Received:** 11/6/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		MROGERSON
351.2	MROGERSON	GNITAJOUPPI
410.4		KMENGS
6010C	AKONZEL	KMCLAEN
6010C	AKONZEL	NMANSEN
9056A		KWONG
9056A		KAWONG
9066		BBOWE
SM 2320 B-1997(2011)		STALARICO
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		KMENGS
SM 5310 C-2000(2011)		CWOODS

Client: Casella Waste Systems (Hampden ME) **Service Request:** R1910844
Project: Hyland Facility - Routine Parameters/

Sample Name: MW36A-1119 **Date Collected:** 11/5/19
Lab Code: R1910844-009 **Date Received:** 11/6/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
6010C	AKONZEL	NMANSEN
9066		BBOWE
SM 2320 B-1997(2011)		STALARICO
SM 5310 C-2000(2011)		CWOODS

Sample Name: GSS2GH-1119 **Date Collected:** 11/5/19
Lab Code: R1910844-010 **Date Received:** 11/6/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		MROGERSON
351.2	MROGERSON	GNITAJOUPPI
410.4		KMENGS
6010C	AKONZEL	NMANSEN
6010C	AKONZEL	KMCLAEN
9056A		KWONG
9056A		KAWONG
9066		BBOWE
SM 2320 B-1997(2011)		STALARICO
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		KMENGS
SM 5310 C-2000(2011)		CWOODS

Sample Name: GSS1-1119 **Date Collected:** 11/5/19
Lab Code: R1910844-011 **Date Received:** 11/6/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		MROGERSON
351.2	MROGERSON	GNITAJOUPPI
410.4		KMENGS

Client: Casella Waste Systems (Hampden ME) **Service Request:** R1910844
Project: Hyland Facility - Routine Parameters/

Sample Name: GSS1-1119 **Date Collected:** 11/5/19
Lab Code: R1910844-011 **Date Received:** 11/6/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		STALARICO
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		KMENGS
SM 5310 C-2000(2011)		CWOODS

Sample Name: MW19-1119 **Date Collected:** 11/6/19
Lab Code: R1910844-012 **Date Received:** 11/7/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		GNITAJOUPPI
351.2	NSMITH	GNITAJOUPPI
410.4		KMENGS
6010C	AKONZEL	KMCLAEN
9056A		KAWONG
9066		BBOWE
SM 2320 B-1997(2011)		KWONG
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		KMENGS
SM 5310 C-2000(2011)		CWOODS

Sample Name: MW37-1119 **Date Collected:** 11/6/19
Lab Code: R1910844-013 **Date Received:** 11/7/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		GNITAJOUPPI
351.2	NSMITH	GNITAJOUPPI
410.4		KMENGS

Client: Casella Waste Systems (Hampden ME) **Service Request:** R1910844
Project: Hyland Facility - Routine Parameters/

Sample Name: MW37-1119 **Date Collected:** 11/6/19
Lab Code: R1910844-013 **Date Received:** 11/7/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
9056A		KAWONG
9066		BBOWE
SM 2320 B-1997(2011)		KWONG
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		KMENGS
SM 5310 C-2000(2011)		CWOODS

Sample Name: MW47A-1119 **Date Collected:** 11/6/19
Lab Code: R1910844-014 **Date Received:** 11/7/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		GNITAJOUPPI
351.2	NSMITH	GNITAJOUPPI
410.4		KMENGS
6010C	AKONZEL	KMCLAEN
9056A		KAWONG
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		KWONG
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		KMENGS
SM 5310 C-2000(2011)		CWOODS

Sample Name: MW40A-1119 **Date Collected:** 11/6/19
Lab Code: R1910844-015 **Date Received:** 11/7/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
SM 2320 B-1997(2011)		KWONG

Client: Casella Waste Systems (Hampden ME) **Service Request:** R1910844
Project: Hyland Facility - Routine Parameters/

Sample Name: MW42A-1119 **Date Collected:** 11/6/19
Lab Code: R1910844-016 **Date Received:** 11/7/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
SM 5210 B-2001(2011)		KMENGS

Sample Name: EB1-1119 **Date Collected:** 11/7/19
Lab Code: R1910844-017 **Date Received:** 11/8/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		GNITAJOUPPI
351.2	NSMITH	GNITAJOUPPI
410.4		KMENGS
6010C	AKONZEL	KMCLAEN
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		KWONG
SM 2540 C-1997(2011)		GKNIGHT
SM 5210 B-2001(2011)		KMENGS
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW31-1119 **Date Collected:** 11/7/19
Lab Code: R1910844-018 **Date Received:** 11/8/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		GNITAJOUPPI
351.2	NSMITH	GNITAJOUPPI
410.4		KMENGS
6010C	AKONZEL	KMCLAEN
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		KWONG
SM 2540 C-1997(2011)		GKNIGHT
SM 5210 B-2001(2011)		KMENGS

Client: Casella Waste Systems (Hampden ME) **Service Request:** R1910844
Project: Hyland Facility - Routine Parameters/

Sample Name: MW31-1119 **Date Collected:** 11/7/19
Lab Code: R1910844-018 **Date Received:** 11/8/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW40-1119 **Date Collected:** 11/7/19
Lab Code: R1910844-019 **Date Received:** 11/8/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		GNITAJOUPPI
351.2	NSMITH	GNITAJOUPPI
410.4		KMENGS
6010C	AKONZEL	KMCLAEN
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		KWONG
SM 2540 C-1997(2011)		GKNIGHT
SM 5210 B-2001(2011)		KMENGS
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW42A-1119 **Date Collected:** 11/7/19
Lab Code: R1910844-020 **Date Received:** 11/8/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
9056A		KWONG
SM 2540 C-1997(2011)		GKNIGHT

Client: Casella Waste Systems (Hampden ME) **Service Request:** R1910844
Project: Hyland Facility - Routine Parameters/

Sample Name: MW36A-1119 **Date Collected:** 11/7/19
Lab Code: R1910844-021 **Date Received:** 11/8/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		GNITAJOUPPI
351.2	NSMITH	GNITAJOUPPI
410.4		KMENGS
9056A		KWONG
SM 2540 C-1997(2011)		GKNIGHT

Sample Name: DB1-1119 **Date Collected:** 11/7/19
Lab Code: R1910844-022 **Date Received:** 11/8/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		GNITAJOUPPI
351.2	NSMITH	GNITAJOUPPI
410.4		KMENGS
6010C	AKONZEL	KMCLAEN
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		KWONG
SM 2540 C-1997(2011)		GKNIGHT
SM 5210 B-2001(2011)		KMENGS
SM 5310 C-2000(2011)		SMEDBURY

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Metals

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 08:10
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	MW26-1119	**Basis:**	NA
Lab Code:	R1910844-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/09/19 00:02	11/07/19	
Calcium, Total	6010C	**167000**	ug/L	1000	300	1	11/09/19 00:02	11/07/19	
Iron, Total	6010C	**130**	ug/L	100	20	1	11/09/19 00:02	11/07/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/09/19 00:02	11/07/19	
Magnesium, Total	6010C	**41700**	ug/L	1000	30	1	11/09/19 00:02	11/07/19	
Manganese, Total	6010C	**6 J**	ug/L	10	4	1	11/09/19 00:02	11/07/19	
Potassium, Total	6010C	**1900 J**	ug/L	2000	200	1	11/09/19 00:02	11/07/19	
Sodium, Total	6010C	**60100**	ug/L	1000	200	1	11/09/19 00:02	11/07/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 08:45
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	MW14-1119	**Basis:**	NA
Lab Code:	R1910844-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/09/19 00:05	11/07/19	
Calcium, Total	6010C	**42800**	ug/L	1000	300	1	11/09/19 00:05	11/07/19	
Iron, Total	6010C	**30 J**	ug/L	100	20	1	11/09/19 00:05	11/07/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/09/19 00:05	11/07/19	
Magnesium, Total	6010C	**10900**	ug/L	1000	30	1	11/09/19 00:05	11/07/19	
Manganese, Total	6010C	10 U	ug/L	10	4	1	11/09/19 00:05	11/07/19	
Potassium, Total	6010C	**1900 J**	ug/L	2000	200	1	11/09/19 00:05	11/07/19	
Sodium, Total	6010C	**3400**	ug/L	1000	200	1	11/09/19 00:05	11/07/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 09:10
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	MW40A-1119	**Basis:**	NA
Lab Code:	R1910844-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/09/19 00:08	11/07/19	
Calcium, Total	6010C	**298000**	ug/L	10000	3000	10	11/11/19 14:47	11/07/19	
Iron, Total	6010C	**50 J**	ug/L	100	20	1	11/09/19 00:08	11/07/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/09/19 00:08	11/07/19	
Magnesium, Total	6010C	**160000**	ug/L	1000	30	1	11/09/19 00:08	11/07/19	
Manganese, Total	6010C	**7 J**	ug/L	10	4	1	11/09/19 00:08	11/07/19	
Potassium, Total	6010C	**9300**	ug/L	2000	200	1	11/09/19 00:08	11/07/19	
Sodium, Total	6010C	**58200**	ug/L	1000	200	1	11/09/19 00:08	11/07/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 09:35
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	MW41A-1119	**Basis:**	NA
Lab Code:	R1910844-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/09/19 00:12	11/07/19	
Calcium, Total	6010C	**554000**	ug/L	10000	3000	10	11/11/19 14:50	11/07/19	
Iron, Total	6010C	**190**	ug/L	100	20	1	11/09/19 00:12	11/07/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/09/19 00:12	11/07/19	
Magnesium, Total	6010C	**251000**	ug/L	1000	30	1	11/09/19 00:12	11/07/19	
Manganese, Total	6010C	**13**	ug/L	10	4	1	11/09/19 00:12	11/07/19	
Potassium, Total	6010C	**13200**	ug/L	2000	200	1	11/09/19 00:12	11/07/19	
Sodium, Total	6010C	**110000**	ug/L	1000	200	1	11/09/19 00:12	11/07/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 10:05
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	MW42A-1119	**Basis:**	NA
Lab Code:	R1910844-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/09/19 00:15	11/07/19	
Calcium, Total	6010C	**514000**	ug/L	10000	3000	10	11/11/19 14:53	11/07/19	
Iron, Total	6010C	**5610**	ug/L	100	20	1	11/09/19 00:15	11/07/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/09/19 00:15	11/07/19	
Magnesium, Total	6010C	**192000**	ug/L	1000	30	1	11/09/19 00:15	11/07/19	
Manganese, Total	6010C	**261**	ug/L	10	4	1	11/09/19 00:15	11/07/19	
Potassium, Total	6010C	**17900**	ug/L	2000	200	1	11/09/19 00:15	11/07/19	
Sodium, Total	6010C	**98900**	ug/L	1000	200	1	11/09/19 00:15	11/07/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 10:30
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	MW45A-1119	**Basis:**	NA
Lab Code:	R1910844-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/09/19 00:18	11/07/19	
Calcium, Total	6010C	**189000**	ug/L	1000	300	1	11/09/19 00:18	11/07/19	
Iron, Total	6010C	**2630**	ug/L	100	20	1	11/09/19 00:18	11/07/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/09/19 00:18	11/07/19	
Magnesium, Total	6010C	**45300**	ug/L	1000	30	1	11/09/19 00:18	11/07/19	
Manganese, Total	6010C	**1850**	ug/L	10	4	1	11/09/19 00:18	11/07/19	
Potassium, Total	6010C	**9200**	ug/L	2000	200	1	11/09/19 00:18	11/07/19	
Sodium, Total	6010C	**84000**	ug/L	1000	200	1	11/09/19 00:18	11/07/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 11:00
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	MW34A-1119	**Basis:**	NA
Lab Code:	R1910844-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/09/19 00:21	11/07/19	
Calcium, Total	6010C	**333000**	ug/L	10000	3000	10	11/11/19 14:56	11/07/19	
Iron, Total	6010C	**4340**	ug/L	100	20	1	11/09/19 00:21	11/07/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/09/19 00:21	11/07/19	
Magnesium, Total	6010C	**113000**	ug/L	1000	30	1	11/09/19 00:21	11/07/19	
Manganese, Total	6010C	**1970**	ug/L	10	4	1	11/09/19 00:21	11/07/19	
Potassium, Total	6010C	**12400**	ug/L	2000	200	1	11/09/19 00:21	11/07/19	
Sodium, Total	6010C	**92200**	ug/L	1000	200	1	11/09/19 00:21	11/07/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 11:35
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	MW37A-1119	**Basis:**	NA
Lab Code:	R1910844-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/09/19 00:31	11/07/19	
Calcium, Total	6010C	**217000**	ug/L	10000	3000	10	11/11/19 14:59	11/07/19	
Iron, Total	6010C	**200**	ug/L	100	20	1	11/09/19 00:31	11/07/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/09/19 00:31	11/07/19	
Magnesium, Total	6010C	**85500**	ug/L	1000	30	1	11/09/19 00:31	11/07/19	
Manganese, Total	6010C	**23**	ug/L	10	4	1	11/09/19 00:31	11/07/19	
Potassium, Total	6010C	**12000**	ug/L	2000	200	1	11/09/19 00:31	11/07/19	
Sodium, Total	6010C	**43300**	ug/L	1000	200	1	11/09/19 00:31	11/07/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 12:05
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	MW36A-1119	**Basis:**	NA
Lab Code:	R1910844-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/09/19 00:34	11/07/19	
Calcium, Total	6010C	**473000**	ug/L	10000	3000	10	11/11/19 15:09	11/07/19	
Iron, Total	6010C	**300**	ug/L	100	20	1	11/09/19 00:34	11/07/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/09/19 00:34	11/07/19	
Magnesium, Total	6010C	**199000**	ug/L	1000	30	1	11/09/19 00:34	11/07/19	
Manganese, Total	6010C	**16**	ug/L	10	4	1	11/09/19 00:34	11/07/19	
Potassium, Total	6010C	**11700**	ug/L	2000	200	1	11/09/19 00:34	11/07/19	
Sodium, Total	6010C	**76100**	ug/L	1000	200	1	11/09/19 00:34	11/07/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 13:25
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	GSS2GH-1119	**Basis:**	NA
Lab Code:	R1910844-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/09/19 00:38	11/07/19	
Calcium, Total	6010C	**177000**	ug/L	10000	3000	10	11/11/19 15:12	11/07/19	
Iron, Total	6010C	**2430**	ug/L	100	20	1	11/09/19 00:38	11/07/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/09/19 00:38	11/07/19	
Magnesium, Total	6010C	**83200**	ug/L	1000	30	1	11/09/19 00:38	11/07/19	
Manganese, Total	6010C	**979**	ug/L	10	4	1	11/09/19 00:38	11/07/19	
Potassium, Total	6010C	**8000**	ug/L	2000	200	1	11/09/19 00:38	11/07/19	
Sodium, Total	6010C	**23300**	ug/L	1000	200	1	11/09/19 00:38	11/07/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 14:15
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	GSS1-1119	**Basis:**	NA
Lab Code:	R1910844-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/12/19 16:01	11/11/19	
Calcium, Total	6010C	**54800**	ug/L	1000	300	1	11/12/19 16:01	11/11/19	
Iron, Total	6010C	**790**	ug/L	100	20	1	11/12/19 16:01	11/11/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/12/19 16:01	11/11/19	
Magnesium, Total	6010C	**10500**	ug/L	1000	30	1	11/12/19 16:01	11/11/19	
Manganese, Total	6010C	**25**	ug/L	10	4	1	11/12/19 16:01	11/11/19	
Potassium, Total	6010C	**3300**	ug/L	2000	200	1	11/12/19 16:01	11/11/19	
Sodium, Total	6010C	**5800**	ug/L	1000	200	1	11/12/19 16:01	11/11/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/06/19 09:05
Sample Matrix:	Water	**Date Received:**	11/07/19 12:15
Sample Name:	MW19-1119	**Basis:**	NA
Lab Code:	R1910844-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0	U	ug/L	5.0	0.4	1	11/14/19 19:13	11/13/19	
Calcium, Total	6010C	**65700**		ug/L	1000	300	1	11/14/19 19:13	11/13/19	
Iron, Total	6010C	**430**	**B**	ug/L	100	20	1	11/14/19 19:13	11/13/19	
Lead, Total	6010C	50	U	ug/L	50	3	1	11/14/19 19:13	11/13/19	
Magnesium, Total	6010C	**23200**		ug/L	1000	30	1	11/14/19 19:13	11/13/19	
Manganese, Total	6010C	**28**		ug/L	10	4	1	11/14/19 19:13	11/13/19	
Potassium, Total	6010C	**3500**		ug/L	2000	200	1	11/14/19 19:13	11/13/19	
Sodium, Total	6010C	**16400**		ug/L	1000	200	1	11/14/19 19:13	11/13/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/06/19 11:40
Sample Matrix:	Water	**Date Received:**	11/07/19 12:15
Sample Name:	MW37-1119	**Basis:**	NA
Lab Code:	R1910844-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0	U	ug/L	5.0	0.4	1	11/14/19 19:29	11/13/19	
Calcium, Total	6010C	**67100**		ug/L	1000	300	1	11/14/19 19:29	11/13/19	
Iron, Total	6010C	**60**	**BJ**	ug/L	100	20	1	11/14/19 19:29	11/13/19	
Lead, Total	6010C	50	U	ug/L	50	3	1	11/14/19 19:29	11/13/19	
Magnesium, Total	6010C	**22600**		ug/L	1000	30	1	11/14/19 19:29	11/13/19	
Manganese, Total	6010C	10	U	ug/L	10	4	1	11/14/19 19:29	11/13/19	
Potassium, Total	6010C	**2300**		ug/L	2000	200	1	11/14/19 19:29	11/13/19	
Sodium, Total	6010C	**7500**		ug/L	1000	200	1	11/14/19 19:29	11/13/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/06/19 13:25
Sample Matrix:	Water	**Date Received:**	11/07/19 12:15
Sample Name:	MW47A-1119	**Basis:**	NA
Lab Code:	R1910844-014		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/14/19 19:32	11/13/19	
Calcium, Total	6010C	**208000**	ug/L	10000	3000	10	11/15/19 17:40	11/13/19	
Iron, Total	6010C	**1250**	ug/L	100	20	1	11/14/19 19:32	11/13/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/14/19 19:32	11/13/19	
Magnesium, Total	6010C	**72500**	ug/L	1000	30	1	11/14/19 19:32	11/13/19	
Manganese, Total	6010C	**1480**	ug/L	10	4	1	11/14/19 19:32	11/13/19	
Potassium, Total	6010C	**6100**	ug/L	2000	200	1	11/14/19 19:32	11/13/19	
Sodium, Total	6010C	**52600**	ug/L	1000	200	1	11/14/19 19:32	11/13/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/07/19 08:00
Sample Matrix:	Water	**Date Received:**	11/08/19 12:25
Sample Name:	EB1-1119	**Basis:**	NA
Lab Code:	R1910844-017		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/14/19 19:36	11/13/19	
Calcium, Total	6010C	1000 U	ug/L	1000	300	1	11/14/19 19:36	11/13/19	
Iron, Total	6010C	**20 BJ**	ug/L	100	20	1	11/14/19 19:36	11/13/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/14/19 19:36	11/13/19	
Magnesium, Total	6010C	1000 U	ug/L	1000	30	1	11/14/19 19:36	11/13/19	
Manganese, Total	6010C	10 U	ug/L	10	4	1	11/14/19 19:36	11/13/19	
Potassium, Total	6010C	2000 U	ug/L	2000	200	1	11/14/19 19:36	11/13/19	
Sodium, Total	6010C	1000 U	ug/L	1000	200	1	11/14/19 19:36	11/13/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/07/19 10:10
Sample Matrix:	Water	**Date Received:**	11/08/19 12:25
Sample Name:	MW31-1119	**Basis:**	NA
Lab Code:	R1910844-018		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0	U	ug/L	5.0	0.4	1	11/14/19 19:46	11/13/19	
Calcium, Total	6010C	**53500**		ug/L	1000	300	1	11/14/19 19:46	11/13/19	
Iron, Total	6010C	**60**	**BJ**	ug/L	100	20	1	11/14/19 19:46	11/13/19	
Lead, Total	6010C	50	U	ug/L	50	3	1	11/14/19 19:46	11/13/19	
Magnesium, Total	6010C	**12500**		ug/L	1000	30	1	11/14/19 19:46	11/13/19	
Manganese, Total	6010C	10	U	ug/L	10	4	1	11/14/19 19:46	11/13/19	
Potassium, Total	6010C	**1800**	**J**	ug/L	2000	200	1	11/14/19 19:46	11/13/19	
Sodium, Total	6010C	**11600**		ug/L	1000	200	1	11/14/19 19:46	11/13/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/07/19 12:10
Sample Matrix:	Water	**Date Received:**	11/08/19 12:25
Sample Name:	MW40-1119	**Basis:**	NA
Lab Code:	R1910844-019		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/14/19 19:49	11/13/19	
Calcium, Total	6010C	**48400**	ug/L	1000	300	1	11/14/19 19:49	11/13/19	
Iron, Total	6010C	**240 B**	ug/L	100	20	1	11/14/19 19:49	11/13/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/14/19 19:49	11/13/19	
Magnesium, Total	6010C	**27400**	ug/L	1000	30	1	11/14/19 19:49	11/13/19	
Manganese, Total	6010C	**6 J**	ug/L	10	4	1	11/14/19 19:49	11/13/19	
Potassium, Total	6010C	**2900**	ug/L	2000	200	1	11/14/19 19:49	11/13/19	
Sodium, Total	6010C	**9500**	ug/L	1000	200	1	11/14/19 19:49	11/13/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/07/19 13:30
Sample Matrix:	Water	**Date Received:**	11/08/19 12:25
Sample Name:	DB1-1119	**Basis:**	NA
Lab Code:	R1910844-022		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/14/19 19:52	11/13/19	
Calcium, Total	6010C	**30600**	ug/L	1000	300	1	11/14/19 19:52	11/13/19	
Iron, Total	6010C	**8950**	ug/L	100	20	1	11/14/19 19:52	11/13/19	
Lead, Total	6010C	**5 J**	ug/L	50	3	1	11/14/19 19:52	11/13/19	
Magnesium, Total	6010C	**6400**	ug/L	1000	30	1	11/14/19 19:52	11/13/19	
Manganese, Total	6010C	**221**	ug/L	10	4	1	11/14/19 19:52	11/13/19	
Potassium, Total	6010C	**7600**	ug/L	2000	200	1	11/14/19 19:52	11/13/19	
Sodium, Total	6010C	**3200**	ug/L	1000	200	1	11/14/19 19:52	11/13/19	

General Chemistry

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 08:10
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	MW26-1119	**Basis:**	NA
Lab Code:	R1910844-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**379**		mg/L	2.0	1.8	1	11/08/19 13:44	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/08/19 21:47	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/06/19 12:55	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/06/19 19:21	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**8.0**		mg/L	1.0	0.5	1	11/09/19 18:46	NA	
Chemical Oxygen Demand, Total	410.4	**23.2**		mg/L	5.0	3.8	1	11/12/19 07:00	NA	
Chloride	9056A	**99.5**		mg/L	2.0	0.5	10	11/06/19 19:21	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**588**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	**0.7**	**J**	mg/L	1.0	0.2	10	11/06/19 19:21	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.45**		mg/L	0.20	0.10	1	11/08/19 13:05	11/07/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/18/19 20:46	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**804**		mg/L	10	9	1	11/08/19 08:10	NA	
Sulfate	9056A	**165**		mg/L	4.0	0.8	20	11/07/19 19:48	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 08:45
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	MW14-1119	**Basis:**	NA
Lab Code:	R1910844-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**139**		mg/L	2.0	1.8	1	11/08/19 13:49	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/08/19 21:49	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/06/19 12:56	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/06/19 19:27	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	11/09/19 19:06	NA	
Chemical Oxygen Demand, Total	410.4	**3.9**	**J**	mg/L	5.0	3.8	1	11/12/19 07:00	NA	
Chloride	9056A	**2.7**		mg/L	2.0	0.5	10	11/06/19 19:27	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**152**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	0.2	10	11/06/19 19:27	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20	U	mg/L	0.20	0.10	1	11/08/19 13:06	11/07/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/18/19 20:50	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**193**		mg/L	10	9	1	11/08/19 08:10	NA	
Sulfate	9056A	**19.8**		mg/L	2.0	0.4	10	11/06/19 19:27	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 09:10
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	MW40A-1119	**Basis:**	NA
Lab Code:	R1910844-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	350.1	**0.006**	**J**	mg/L	0.050	0.003	1	11/08/19 21:50	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/06/19 19:33	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**1.0**	**J**	mg/L	1.0	0.5	1	11/09/19 19:27	NA	
Chemical Oxygen Demand, Total	410.4	**4.2**	**J**	mg/L	5.0	3.8	1	11/12/19 07:00	NA	
Chloride	9056A	**3.6**		mg/L	2.0	0.5	10	11/06/19 19:33	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**1400**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	**0.3**	**J**	mg/L	1.0	0.2	10	11/06/19 19:33	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.22**		mg/L	0.20	0.10	1	11/08/19 13:07	11/07/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/18/19 21:02	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**2000**		mg/L	10	9	1	11/08/19 08:10	NA	
Sulfate	9056A	**1180**		mg/L	40	8	200	11/07/19 19:54	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 09:35
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	MW41A-1119	**Basis:**	NA
Lab Code:	R1910844-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Q	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**365**		mg/L	2.0	1.8	1	11/08/19 13:55	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/08/19 21:54	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/07/19 06:32	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/06/19 19:39	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**2.1**		mg/L	1.0	0.5	1	11/09/19 20:30	NA	
Chemical Oxygen Demand, Total	410.4	**7.7**		mg/L	5.0	3.8	1	11/12/19 07:00	NA	
Chloride	9056A	**3.4**		mg/L	2.0	0.5	10	11/06/19 19:39	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**2420**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	**0.6**	**J**	mg/L	1.0	0.2	10	11/06/19 19:39	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.11**	**J**	mg/L	0.20	0.10	1	11/08/19 13:11	11/07/19	
Phenolics, Total Recoverable	9066	**0.0012**	**J**	mg/L	0.0050	0.0010	1	11/18/19 21:06	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**3610**		mg/L	20	18	1	11/08/19 08:10	NA	
Sulfate	9056A	**2330**		mg/L	80	16	400	11/07/19 20:00	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 10:05
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	MW42A-1119	**Basis:**	NA
Lab Code:	R1910844-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**364**		mg/L	2.0	1.8	1	11/08/19 14:09	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/08/19 21:55	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**1.1**		mg/L	1.0	0.5	1	11/09/19 20:51	NA	
Chemical Oxygen Demand, Total	410.4	**4.2**	**J**	mg/L	5.0	3.8	1	11/12/19 07:00	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**2080**		mg/L	6.62	-	1	NA	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.18**	**J**	mg/L	0.20	0.10	1	11/08/19 13:12	11/07/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/18/19 21:10	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 10:30
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	MW45A-1119	**Basis:**	NA
Lab Code:	R1910844-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Q	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**232**		mg/L	2.0	1.8	1	11/08/19 14:14	NA	
Ammonia as Nitrogen, undistilled	350.1	**0.262**		mg/L	0.050	0.003	1	11/08/19 21:56	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	**14.6**		mg/L	2.0	-	1	11/07/19 06:31	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/06/19 19:45	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**15.9**		mg/L	1.0	0.5	1	11/09/19 21:12	NA	
Chemical Oxygen Demand, Total	410.4	**47.7**		mg/L	5.0	3.8	1	11/12/19 07:00	NA	
Chloride	9056A	**12.6**		mg/L	2.0	0.5	10	11/06/19 19:45	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**658**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	**0.4**	**J**	mg/L	1.0	0.2	10	11/06/19 19:45	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.44**		mg/L	0.20	0.10	1	11/08/19 13:12	11/07/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/18/19 21:15	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**1110**		mg/L	10	9	1	11/08/19 08:10	NA	
Sulfate	9056A	**572**		mg/L	20	4	100	11/07/19 20:06	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 11:00
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	MW34A-1119	**Basis:**	NA
Lab Code:	R1910844-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Q	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**224**		mg/L	2.0	1.8	1	11/08/19 14:20	NA	
Ammonia as Nitrogen, undistilled	350.1	**0.182**		mg/L	0.050	0.003	1	11/08/19 21:58	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	**2.4**		mg/L	2.0	-	1	11/07/19 06:31	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/06/19 19:51	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**3.7**		mg/L	1.0	0.5	1	11/09/19 21:33	NA	
Chemical Oxygen Demand, Total	410.4	**12.2**		mg/L	5.0	3.8	1	11/12/19 07:00	NA	
Chloride	9056A	**2.7**		mg/L	2.0	0.5	10	11/06/19 19:51	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**1300**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	**0.4**	**J**	mg/L	1.0	0.2	10	11/06/19 19:51	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.32**		mg/L	0.20	0.10	1	11/08/19 13:13	11/07/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/18/19 21:19	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**2050**		mg/L	20	18	1	11/08/19 08:10	NA	
Sulfate	9056A	**1350**		mg/L	60	12	300	11/07/19 20:12	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 11:35
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	MW37A-1119	**Basis:**	NA
Lab Code:	R1910844-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Q	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**353**		mg/L	2.0	1.8	1	11/08/19 14:25	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/08/19 21:59	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/07/19 06:30	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/06/19 19:57	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**1.1**		mg/L	1.0	0.5	1	11/09/19 21:54	NA	
Chemical Oxygen Demand, Total	410.4	**6.3**		mg/L	5.0	3.8	1	11/12/19 07:00	NA	
Chloride	9056A	**1.7**	**J**	mg/L	2.0	0.5	10	11/06/19 19:57	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**894**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	0.2	10	11/06/19 19:57	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20	U	mg/L	0.20	0.10	1	11/08/19 13:14	11/07/19	
Phenolics, Total Recoverable	9066	**0.0011**	**BJ**	mg/L	0.0050	0.0010	1	11/18/19 21:42	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**1270**		mg/L	10	9	1	11/08/19 08:10	NA	
Sulfate	9056A	**639**		mg/L	20	4	100	11/07/19 20:18	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 12:05
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	MW36A-1119	**Basis:**	NA
Lab Code:	R1910844-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**406**	mg/L	2.0	1.8	1	11/08/19 14:31	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**2.0**	mg/L	1.0	0.5	1	11/09/19 22:15	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**2000**	mg/L	6.62	-	1	NA	
Phenolics, Total Recoverable	9066	**0.0015 BJ**	mg/L	0.0050	0.0010	1	11/18/19 21:46	

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 13:25
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	GSS2GH-1119	**Basis:**	NA
Lab Code:	R1910844-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Q	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**340**		mg/L	2.0	1.8	1	11/08/19 14:36	NA	
Ammonia as Nitrogen, undistilled	350.1	**0.246**		mg/L	0.050	0.003	1	11/08/19 22:00	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/07/19 06:31	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/06/19 20:15	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**2.8**		mg/L	1.0	0.5	1	11/09/19 22:35	NA	
Chemical Oxygen Demand, Total	410.4	**10.5**		mg/L	5.0	3.8	1	11/12/19 07:00	NA	
Chloride	9056A	**7.6**		mg/L	2.0	0.5	10	11/06/19 20:15	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**784**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	**1.4**		mg/L	1.0	0.2	10	11/06/19 20:15	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.40**		mg/L	0.20	0.10	1	11/08/19 13:15	11/07/19	
Phenolics, Total Recoverable	9066	**0.0013**	**BJ**	mg/L	0.0050	0.0010	1	11/18/19 21:50	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**1090**		mg/L	10	9	1	11/08/19 08:10	NA	
Sulfate	9056A	**494**		mg/L	20	4	100	11/07/19 20:24	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19 14:15
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	GSS1-1119	**Basis:**	NA
Lab Code:	R1910844-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Q	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**146**		mg/L	2.0	1.8	1	11/08/19 14:42	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/08/19 22:01	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/07/19 06:29	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/06/19 20:33	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**2.5**		mg/L	1.0	0.5	1	11/09/19 22:56	NA	
Chemical Oxygen Demand, Total	410.4	**11.5**		mg/L	5.0	3.8	1	11/12/19 07:00	NA	
Chloride	9056A	**9.1**		mg/L	2.0	0.5	10	11/06/19 20:33	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**180**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	**0.5**	**J**	mg/L	1.0	0.2	10	11/06/19 20:33	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.10**	**J**	mg/L	0.20	0.10	1	11/08/19 13:15	11/07/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/18/19 21:54	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**243**		mg/L	10	9	1	11/08/19 08:10	NA	
Sulfate	9056A	**36.0**		mg/L	2.0	0.4	10	11/06/19 20:33	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/06/19 09:05
Sample Matrix:	Water	**Date Received:**	11/07/19 12:15
Sample Name:	MW19-1119	**Basis:**	NA
Lab Code:	R1910844-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**217**		mg/L	2.0	1.8	1	11/12/19 23:53	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/12/19 16:20	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/08/19 06:04	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/08/19 00:04	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**1.2**		mg/L	1.0	0.5	1	11/09/19 23:17	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/12/19 07:00	NA	
Chloride	9056A	**23.5**		mg/L	2.0	0.5	10	11/08/19 00:04	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**260**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	**0.7**	**J**	mg/L	1.0	0.2	10	11/08/19 00:04	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20	U	mg/L	0.20	0.10	1	11/13/19 13:12	11/12/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/18/19 21:58	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**310**		mg/L	11	10	1	11/09/19 09:30	NA	
Sulfate	9056A	**29.4**		mg/L	2.0	0.4	10	11/08/19 00:04	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/06/19 11:40
Sample Matrix:	Water	**Date Received:**	11/07/19 12:15
Sample Name:	MW37-1119	**Basis:**	NA
Lab Code:	R1910844-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**213**		mg/L	2.0	1.8	1	11/13/19 00:16	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/12/19 16:17	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/08/19 06:03	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/08/19 00:34	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	11/10/19 01:02	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/12/19 07:00	NA	
Chloride	9056A	**11.6**		mg/L	2.0	0.5	10	11/08/19 00:34	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**261**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	0.2	10	11/08/19 00:34	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20	U	mg/L	0.20	0.10	1	11/13/19 13:17	11/12/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/18/19 22:10	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**307**		mg/L	10	9	1	11/09/19 09:30	NA	
Sulfate	9056A	**44.5**		mg/L	2.0	0.4	10	11/08/19 00:34	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/06/19 13:25
Sample Matrix:	Water	**Date Received:**	11/07/19 12:15
Sample Name:	MW47A-1119	**Basis:**	NA
Lab Code:	R1910844-014		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Q	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**246**		mg/L	2.0	1.8	1	11/13/19 00:22	NA	
Ammonia as Nitrogen, undistilled	350.1	**0.180**		mg/L	0.050	0.003	1	11/12/19 16:18	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	**2.0**		mg/L	2.0	-	1	11/08/19 06:03	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/08/19 00:40	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**1.6**		mg/L	1.0	0.5	1	11/10/19 01:22	NA	
Chemical Oxygen Demand, Total	410.4	**4.9**	**J**	mg/L	5.0	3.8	1	11/12/19 07:00	NA	
Chloride	9056A	**3.1**		mg/L	2.0	0.5	10	11/08/19 00:40	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**819**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	**0.4**	**J**	mg/L	1.0	0.2	10	11/08/19 00:40	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.31**		mg/L	0.20	0.10	1	11/13/19 13:18	11/12/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/18/19 22:14	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**1230**		mg/L	11	10	1	11/09/19 09:30	NA	
Sulfate	9056A	**703**		mg/L	20	4	100	11/09/19 16:51	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/06/19 14:10
Sample Matrix:	Water	**Date Received:**	11/07/19 12:15
Sample Name:	MW40A-1119	**Basis:**	NA
Lab Code:	R1910844-015		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**379**	mg/L	2.0	1.8	1	11/13/19 00:28	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/06/19 14:25
Sample Matrix:	Water	**Date Received:**	11/07/19 12:15
Sample Name:	MW42A-1119	**Basis:**	NA
Lab Code:	R1910844-016		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0 U	mg/L	2.0	1	11/08/19 06:02	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/07/19 08:00
Sample Matrix:	Water	**Date Received:**	11/08/19 12:25
Sample Name:	EB1-1119	**Basis:**	NA
Lab Code:	R1910844-017		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**2.4**		mg/L	2.0	1.8	1	11/13/19 00:31	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/12/19 16:23	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/08/19 14:06	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/08/19 17:36	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	11/14/19 22:37	NA	
Chemical Oxygen Demand, Total	410.4	**4.2**	**J**	mg/L	5.0	3.8	1	11/12/19 07:00	NA	
Chloride	9056A	2.0	U	mg/L	2.0	0.5	10	11/08/19 17:36	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	6.62	U	mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	0.2	10	11/08/19 17:36	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.71**		mg/L	0.20	0.10	1	11/13/19 13:19	11/12/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/18/19 22:34	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**9**	**J**	mg/L	10	9	1	11/13/19 15:20	NA	
Sulfate	9056A	2.0	U	mg/L	2.0	0.4	10	11/08/19 17:36	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/07/19 10:10
Sample Matrix:	Water	**Date Received:**	11/08/19 12:25
Sample Name:	MW31-1119	**Basis:**	NA
Lab Code:	R1910844-018		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**91.2**		mg/L	2.0	1.8	1	11/13/19 00:38	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/12/19 16:27	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/08/19 14:07	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/08/19 17:42	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	11/14/19 22:58	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/12/19 07:00	NA	
Chloride	9056A	**53.0**		mg/L	2.0	0.5	10	11/08/19 17:42	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**185**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	**0.6**	**J**	mg/L	1.0	0.2	10	11/08/19 17:42	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20	U	mg/L	0.20	0.10	1	11/13/19 13:19	11/12/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/18/19 22:38	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**256**		mg/L	10	9	1	11/13/19 15:20	NA	
Sulfate	9056A	**56.2**		mg/L	2.0	0.4	10	11/08/19 17:42	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/07/19 12:10
Sample Matrix:	Water	**Date Received:**	11/08/19 12:25
Sample Name:	MW40-1119	**Basis:**	NA
Lab Code:	R1910844-019		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**187**		mg/L	2.0	1.8	1	11/13/19 00:44	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/12/19 16:28	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/08/19 14:01	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/08/19 18:11	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	11/14/19 23:19	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/12/19 07:00	NA	
Chloride	9056A	**10.9**		mg/L	2.0	0.5	10	11/08/19 18:11	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**234**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	0.2	10	11/08/19 18:11	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20	U	mg/L	0.20	0.10	1	11/13/19 13:20	11/12/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/18/19 22:43	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**284**		mg/L	10	9	1	11/13/19 15:20	NA	
Sulfate	9056A	**48.8**		mg/L	2.0	0.4	10	11/08/19 18:11	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/07/19 12:35
Sample Matrix:	Water	**Date Received:**	11/08/19 12:25
Sample Name:	MW42A-1119	**Basis:**	NA
Lab Code:	R1910844-020		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Bromide	9056A	1.0 U	mg/L	1.0	0.4	10	11/08/19 18:17	
Chloride	9056A	**3.9**	mg/L	2.0	0.5	10	11/08/19 18:17	
Nitrate as Nitrogen	9056A	**0.4 J**	mg/L	1.0	0.2	10	11/08/19 18:17	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**3170**	mg/L	20	18	1	11/13/19 15:20	
Sulfate	9056A	**1950**	mg/L	60	12	300	11/10/19 00:31	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/07/19 13:10
Sample Matrix:	Water	**Date Received:**	11/08/19 12:25
Sample Name:	MW36A-1119	**Basis:**	NA
Lab Code:	R1910844-021		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/12/19 16:29	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/08/19 18:23	NA	
Chemical Oxygen Demand, Total	410.4	**6.7**		mg/L	5.0	3.8	1	11/12/19 07:00	NA	
Chloride	9056A	**3.0**		mg/L	2.0	0.5	10	11/08/19 18:23	NA	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	0.2	10	11/08/19 18:23	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20	U	mg/L	0.20	0.10	1	11/13/19 13:21	11/12/19	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**2990**		mg/L	20	18	1	11/13/19 15:20	NA	
Sulfate	9056A	**1800**		mg/L	60	12	300	11/10/19 00:37	NA	

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/07/19 13:30
Sample Matrix:	Water	**Date Received:**	11/08/19 12:25
Sample Name:	DB1-1119	**Basis:**	NA
Lab Code:	R1910844-022		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Q	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**76.4**		mg/L	2.0	1.8	1	11/13/19 00:50	NA	
Ammonia as Nitrogen, undistilled	350.1	**0.170**		mg/L	0.050	0.003	1	11/12/19 16:30	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/08/19 17:06	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/08/19 18:29	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**2.8**		mg/L	1.0	0.5	1	11/14/19 23:40	NA	
Chemical Oxygen Demand, Total	410.4	**9.8**		mg/L	5.0	3.8	1	11/12/19 07:00	NA	
Chloride	9056A	**4.9**		mg/L	2.0	0.5	10	11/08/19 18:29	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**103**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	**0.6**	**J**	mg/L	1.0	0.2	10	11/08/19 18:29	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.77**		mg/L	0.20	0.10	1	11/13/19 13:22	11/12/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/18/19 22:47	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**203**		mg/L	10	9	1	11/13/19 15:20	NA	
Sulfate	9056A	**18.7**		mg/L	2.0	0.4	10	11/08/19 18:29	NA	

QC Summary Forms

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Metals

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1910844-MB1		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0	U	ug/L	5.0	0.4	1	11/08/19 23:13	11/07/19	
Calcium, Total	6010C	1000	U	ug/L	1000	300	1	11/08/19 23:13	11/07/19	
Iron, Total	6010C	100	U	ug/L	100	20	1	11/08/19 23:13	11/07/19	
Lead, Total	6010C	50	U	ug/L	50	3	1	11/08/19 23:13	11/07/19	
Magnesium, Total	6010C	1000	U	ug/L	1000	30	1	11/08/19 23:13	11/07/19	
Manganese, Total	6010C	10	U	ug/L	10	4	1	11/08/19 23:13	11/07/19	
Potassium, Total	6010C	2000	U	ug/L	2000	200	1	11/08/19 23:13	11/07/19	
Sodium, Total	6010C	1000	U	ug/L	1000	200	1	11/08/19 23:13	11/07/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1910844-MB2		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0	U	ug/L	5.0	0.4	1	11/12/19 15:03	11/11/19	
Calcium, Total	6010C	1000	U	ug/L	1000	300	1	11/12/19 15:03	11/11/19	
Iron, Total	6010C	100	U	ug/L	100	20	1	11/12/19 15:03	11/11/19	
Lead, Total	6010C	50	U	ug/L	50	3	1	11/12/19 15:03	11/11/19	
Magnesium, Total	6010C	1000	U	ug/L	1000	30	1	11/12/19 15:03	11/11/19	
Manganese, Total	6010C	10	U	ug/L	10	4	1	11/12/19 15:03	11/11/19	
Potassium, Total	6010C	2000	U	ug/L	2000	200	1	11/12/19 15:03	11/11/19	
Sodium, Total	6010C	1000	U	ug/L	1000	200	1	11/12/19 15:03	11/11/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1910844-MB3		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/14/19 19:07	11/13/19	
Calcium, Total	6010C	1000 U	ug/L	1000	300	1	11/14/19 19:07	11/13/19	
Iron, Total	6010C	**70 J**	ug/L	100	20	1	11/14/19 19:07	11/13/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/14/19 19:07	11/13/19	
Magnesium, Total	6010C	1000 U	ug/L	1000	30	1	11/14/19 19:07	11/13/19	
Manganese, Total	6010C	10 U	ug/L	10	4	1	11/14/19 19:07	11/13/19	
Potassium, Total	6010C	2000 U	ug/L	2000	200	1	11/14/19 19:07	11/13/19	
Sodium, Total	6010C	1000 U	ug/L	1000	200	1	11/14/19 19:07	11/13/19	

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request:R1910844
Date Collected:11/06/19
Date Received:11/07/19
Date Analyzed:11/14/19

Duplicate Matrix Spike Summary
Inorganic Parameters

Sample Name: MW19-1119
Lab Code: R1910844-012

Units:ug/L
Basis:NA

			Matrix Spike			Duplicate Matrix Spike					
			R1910844-012MS			R1910844-012DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Cadmium, Total	6010C	5.0 U	50.3	50.0	101	49.9	50.0	100	75-125	<1	20
Calcium, Total	6010C	65700	69000	2000	164 #	68400	2000	136 #	75-125	<1	20
Iron, Total	6010C	430 B	1420	1000	99	1360	1000	93	75-125	4	20
Lead, Total	6010C	50 U	506	500	101	505	500	101	75-125	<1	20
Magnesium, Total	6010C	23200	25300	2000	102 #	25100	2000	96 #	75-125	<1	20
Manganese, Total	6010C	28	543	500	103	541	500	103	75-125	<1	20
Potassium, Total	6010C	3500	23700	20000	101	23600	20000	101	75-125	<1	20
Sodium, Total	6010C	16400	36500	20000	100	36300	20000	99	75-125	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request: R1910844
Date Analyzed: 11/14/19

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R1910844-LCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cadmium, Total	6010C	51.4	50.0	103	80-120
Calcium, Total	6010C	1740	2000	87	80-120
Iron, Total	6010C	1020	1000	102	80-120
Lead, Total	6010C	504	500	101	80-120
Magnesium, Total	6010C	1960	2000	98	80-120
Manganese, Total	6010C	509	500	102	80-120
Potassium, Total	6010C	19600	20000	98	80-120
Sodium, Total	6010C	20400	20000	102	80-120

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request: R1910844
Date Analyzed: 11/08/19

Duplicate Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

			Lab Control Sample		Duplicate Lab Control Sample					
			R1910844-LCS1		R1910844-DLCS1					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Cadmium, Total	6010C	50.2	50.0	100	51.9	50.0	104	80-120	3	20
Calcium, Total	6010C	1700	2000	83	1700	2000	86	80-120	3	20
Iron, Total	6010C	940	1000	94	970	1000	97	80-120	3	20
Lead, Total	6010C	492	500	98	504	500	101	80-120	2	20
Magnesium, Total	6010C	1900	2000	94	1900	2000	97	80-120	3	20
Manganese, Total	6010C	488	500	98	504	500	101	80-120	3	20
Potassium, Total	6010C	18600	20000	93	19300	20000	96	80-120	3	20
Sodium, Total	6010C	19500	20000	97	20100	20000	101	80-120	3	20

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request: R1910844
Date Analyzed: 11/12/19

Duplicate Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

			Lab Control Sample		Duplicate Lab Control Sample					
			R1910844-LCS2		R1910844-DLCS2					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Cadmium, Total	6010C	52.0	50.0	104	50.9	50.0	102	80-120	2	20
Calcium, Total	6010C	1800	2000	89	1800	2000	88	80-120	1	20
Iron, Total	6010C	980	1000	98	960	1000	96	80-120	1	20
Lead, Total	6010C	507	500	101	500	500	100	80-120	1	20
Magnesium, Total	6010C	1900	2000	97	1900	2000	95	80-120	2	20
Manganese, Total	6010C	505	500	101	498	500	100	80-120	1	20
Potassium, Total	6010C	19400	20000	97	19200	20000	96	80-120	1	20
Sodium, Total	6010C	20100	20000	100	19800	20000	99	80-120	1	20

General Chemistry

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1910844-MB1		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	U	mg/L	2.0	1.8	1	11/08/19 11:42	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/08/19 21:09	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/06/19 17:20	NA	
Bromide	9056A	0.10	U	mg/L	0.10	0.04	1	11/06/19 18:04	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	11/09/19 11:28	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/12/19 07:00	NA	
Chloride	9056A	0.20	U	mg/L	0.20	0.05	1	11/06/19 18:04	NA	
Nitrate as Nitrogen	9056A	0.10	U	mg/L	0.10	0.02	1	11/06/19 18:04	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20	U	mg/L	0.20	0.1	1	11/08/19 12:57	11/07/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/18/19 18:38	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	10	U	mg/L	10	9	1	11/08/19 08:10	NA	
Sulfate	9056A	0.20	U	mg/L	0.20	0.04	1	11/06/19 18:04	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1910844-MB2		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	U	mg/L	2.0	1.8	1	11/12/19 21:38	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/08/19 21:52	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/07/19 14:32	NA	
Bromide	9056A	0.10	U	mg/L	0.10	0.04	1	11/07/19 23:11	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	11/14/19 17:03	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/12/19 07:00	NA	
Chloride	9056A	0.20	U	mg/L	0.20	0.05	1	11/07/19 23:11	NA	
Nitrate as Nitrogen	9056A	0.10	U	mg/L	0.10	0.02	1	11/07/19 23:11	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20	U	mg/L	0.20	0.1	1	11/13/19 13:07	11/12/19	
Phenolics, Total Recoverable	9066	**0.0019**	**J**	mg/L	0.0050	0.0010	1	11/18/19 21:26	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	10	U	mg/L	10	9	1	11/09/19 09:30	NA	
Sulfate	9056A	0.20	U	mg/L	0.20	0.04	1	11/07/19 17:02	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1910844-MB3		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/12/19 15:45	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/08/19 13:22	
Bromide	9056A	0.10	U	mg/L	0.10	0.04	1	11/08/19 15:36	
Chloride	9056A	0.20	U	mg/L	0.20	0.05	1	11/08/19 15:36	
Nitrate as Nitrogen	9056A	0.10	U	mg/L	0.10	0.02	1	11/08/19 15:36	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	10	U	mg/L	10	9	1	11/13/19 15:20	
Sulfate	9056A	0.20	U	mg/L	0.20	0.04	1	11/07/19 23:11	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1910844-MB4		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/12/19 16:12	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/08/19 19:57	
Sulfate	9056A	0.20	U	mg/L	0.20	0.04	1	11/08/19 15:36	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1910844-MB5		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Sulfate	9056A	0.20 U	mg/L	0.20	0.04	1	11/09/19 15:51	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1910844-MB6		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Sulfate	9056A	0.20 U	mg/L	0.20	0.04	1	11/09/19 21:50	

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19
Sample Matrix:	Water	**Date Received:**	11/06/19
		Date Analyzed:	11/18/19

Duplicate Matrix Spike Summary
Phenolics, Total Recoverable

Sample Name:	MW14-1119	**Units:**	mg/L
Lab Code:	R1910844-002	**Basis:**	NA
Analysis Method:	9066		

		Matrix Spike			Duplicate Matrix Spike					
		R1910844-002MS			R1910844-002DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Phenolics, Total Recoverable	0.0050 U	0.0393	0.0400	98	0.0396	0.0400	99	49-137	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request:R1910844
Date Collected:11/05/19
Date Received:11/06/19
Date Analyzed:11/6/19

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: MW37A-1119
Lab Code: R1910844-008

Units:mg/L
Basis:NA

			Matrix Spike R1910844-008MS			Duplicate Matrix Spike R1910844-008DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Bromide	9056A	1.0 U	10.1	10.0	101	10.1	10.0	101	80-120	<1	15
Chloride	9056A	1.7 J	21.7	20.0	100	21.7	20.0	100	80-120	<1	15
Nitrate as Nitrogen	9056A	1.0 U	10.3	10.0	103	10.3	10.0	103	80-120	<1	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request:R1910844
Date Collected:11/05/19
Date Received:11/06/19
Date Analyzed:11/8/19

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: GSS1-1119
Lab Code: R1910844-011

Units:mg/L
Basis:NA

			Matrix Spike R1910844-011MS			Duplicate Matrix Spike R1910844-011DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Ammonia as Nitrogen, undistilled	350.1	0.050 U	0.240	0.250	96	0.239	0.250	96	90-110	<1	20
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10 J	2.37	2.50	91	2.41	2.50	92	90-110	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request:R1910844
Date Collected:11/06/19
Date Received:11/07/19
Date Analyzed:11/08/19 - 11/18/19

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: MW19-1119
Lab Code: R1910844-012

Units:mg/L
Basis:NA

	Matrix Spike	Duplicate Matrix Spike								
	R1910844-012MS	R1910844-012DMS								
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Ammonia as Nitrogen, undistilled	350.1	0.050 U	0.220	0.250	88 *	0.220	0.250	88 *	90-110	<1	20
Bromide	9056A	1.0 U	10.5	10.0	105	10.2	10.0	102	80-120	2	15
Chloride	9056A	23.5	44.8	20.0	107	44.5	20.0	105	80-120	<1	15
Chemical Oxygen Demand, Total	410.4	5.0 U	21.7	25.0	87 *	25.7	25.0	103	90-110	17	20
Phenolics, Total Recoverable	9066	0.0050 U	0.0391	0.0400	98	0.0405	0.0400	101	49-137	3	20
Sulfate	9056A	29.4	50.2	20.0	104	49.9	20.0	103	80-120	<1	15
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20 U	2.40	2.50	96	2.37	2.50	95	90-110	1	20
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.2	12.2	10.0	110	10.9	10.0	98	48-135	11	20
Nitrate as Nitrogen	9056A	0.7 J	11.1	10.0	104	11.0	10.0	103	80-120	<1	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request:R1910844
Date Collected:11/07/19
Date Received:11/08/19
Date Analyzed:11/8/19

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: MW31-1119
Lab Code: R1910844-018

Units:mg/L
Basis:NA

			Matrix Spike R1910844-018MS			Duplicate Matrix Spike R1910844-018DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Bromide	9056A	1.0 U	10.0	10.0	100	10.0	10.0	100	80-120	<1	15
Chloride	9056A	53.0	72.0	20.0	95	71.2	20.0	91	80-120	1	15
Sulfate	9056A	56.2	76.1	20.0	100	74.7	20.0	93	80-120	2	15
Nitrate as Nitrogen	9056A	0.6 J	10.5	10.0	99	10.5	10.0	99	80-120	<1	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request:R1910844
Date Collected:11/07/19
Date Received:11/08/19
Date Analyzed:11/12/19 - 11/13/19

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: DB1-1119
Lab Code: R1910844-022

Units:mg/L
Basis:NA

			Matrix Spike R1910844-022MS			Duplicate Matrix Spike R1910844-022DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chemical Oxygen Demand, Total	410.4	9.8	30.3	25.0	82 *	29.1	25.0	77 *	90-110	4	20
Nitrogen, Total Kjeldahl (TKN)	351.2	0.77	3.14	2.50	95	3.15	2.50	95	90-110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19
Sample Matrix:	Water	**Date Received:**	11/06/19
		Date Analyzed:	11/08/19

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	MW41A-1119	**Units:**	mg/L
Lab Code:	R1910844-004	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample R1910844-004DUP Result	Average	RPD	RPD Limit
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	20	18	3610	3590	3600	<1	10

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project	Hyland Facility - Routine Parameters	**Date Collected:**	11/05/19
Sample Matrix:	Water	**Date Received:**	11/06/19
		Date Analyzed:	11/08/19

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	GSS1-1119	**Units:**	mg/L
Lab Code:	R1910844-011	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample R1910844-011DUP Result	Average	RPD	RPD Limit
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	1.8	146	146	146	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910844
Project	Hyland Facility - Routine Parameters	**Date Collected:**	11/06/19
Sample Matrix:	Water	**Date Received:**	11/07/19
		Date Analyzed:	11/08/19 - 11/13/19

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	MW19-1119	**Units:**	mg/L
Lab Code:	R1910844-012	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample R1910844-012DUP Result	Average	RPD	RPD Limit
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	1.8	217	217	217	<1	20
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0		2.0 U	2.0 U	NC	NC	20
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	11	10	310	310	310	<1	10

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request: R1910844
Date Analyzed: 11/06/19 - 11/18/19

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1910844-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	18.8	20.0	94	80-120
Ammonia as Nitrogen, undistilled	350.1	0.250	0.250	100	90-110
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	185	198	93	85-115
Bromide	9056A	1.00	1.00	100	80-120
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.6	10.0	106	80-121
Chemical Oxygen Demand, Total	410.4	54.4	50.0	109	90-110
Chloride	9056A	2.07	2.00	103	80-120
Nitrate as Nitrogen	9056A	1.02	1.00	102	80-120
Nitrogen, Total Kjeldahl (TKN)	351.2	2.35	2.50	94	90-110
Phenolics, Total Recoverable	9066	0.0393	0.0400	98	85-115
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	914	914	100	90-110
Sulfate	9056A	2.02	2.00	101	80-120

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request: R1910844
Date Analyzed: 11/07/19 - 11/18/19

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1910844-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	18.4	20.0	92	80-120
Ammonia as Nitrogen, undistilled	350.1	0.251	0.250	100	90-110
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	184	198	93	85-115
Bromide	9056A	1.01	1.00	101	80-120
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.3	10.0	103	80-121
Chemical Oxygen Demand, Total	410.4	54.9	50.0	110	90-110
Chloride	9056A	2.08	2.00	104	80-120
Nitrate as Nitrogen	9056A	1.03	1.00	103	80-120
Nitrogen, Total Kjeldahl (TKN)	351.2	2.30	2.50	92	90-110
Phenolics, Total Recoverable	9066	0.0390	0.0400	98	85-115
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	882	914	97	90-110
Sulfate	9056A	2.02	2.00	101	80-120

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request: R1910844
Date Analyzed: 11/07/19 - 11/13/19

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1910844-LCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, undistilled	350.1	0.244	0.250	98	90-110
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	208	198	105	85-115
Bromide	9056A	1.02	1.00	102	80-120
Chloride	9056A	2.08	2.00	104	80-120
Nitrate as Nitrogen	9056A	1.03	1.00	103	80-120
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	922	914	101	90-110
Sulfate	9056A	2.06	2.00	103	80-120

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request: R1910844
Date Analyzed: 11/08/19 - 11/12/19

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1910844-LCS4

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, undistilled	350.1	0.247	0.250	99	90-110
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	193	198	97	85-115
Sulfate	9056A	2.02	2.00	101	80-120

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request: R1910844
Date Analyzed: 11/09/19

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1910844-LCS5

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Sulfate	9056A	2.02	2.00	101	80-120

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request: R1910844
Date Analyzed: 11/09/19

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1910844-LCS6

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Sulfate	9056A	2.01	2.00	101	80-120

November 20, 2019 Service Request No:R1910842

Russell Anderson
Casella Waste - Hyland
4 Chenell Drive
Suite 200
Concord, NH 03301

Laboratory Results for: Hyland Facility - Baseline Parameters

Dear Russell,

Enclosed are the results of the sample(s) submitted to our laboratory November 06, 2019
For your reference, these analyses have been assigned our service request number **R1910842.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

CC: Jon Brandes

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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1565 Jefferson Rd, Building 300, Rochester, NY 14623 | 585-288-5380 | www.alsglobal.com

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Baseline Parameters
Sample Matrix: Water

Service Request: R1910842
Date Received: 11/06/2019

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 11/06/2019. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

Method 7196A: One or more samples were received with insufficient hold time remaining to complete the analysis within the recommended limit. The analysis was performed as soon as possible after receipt by the laboratory. The data is flagged to indicate the holding time exceedance.

Volatiles by GC/MS:

Method 8260C, 11/08/2019: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
Method 8260C, 11/08/2019: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 11/08/2019: The Method Blank contained a low level of the following analytes above the Reporting Limit: acetone. All associated sample results less than ten times the level found in the Method Blank are flagged. The samples were not reprepared/reanalyzed because the vials used in sampling have acetone contamination. We are working with a new vendor to supply clean vials.

Approved by _____ Date 11/20/2019

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Casella Waste Systems (Hampden ME) **Service Request:**R1910842

Project: Hyland Facility - Baseline Parameters

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1910842-001	GSS2EF-1119	11/5/2019	1245

CHAIN of CUSTODY

Page 1 of 1

ALS-Environmental
1565 Jefferson Rd, Bldg 300, Suite 360
Rochester, NY 14623
585.288.5380

Client: Casella/On-Site
6653 Herdman Road
Angelica, NY 14709

Project Manager: Russ Anderson/Jon Brandes

Project: Hyland Facility - Baseline Parameters

Telephone No.: 585-593-1824

Email: jonb@on-sitehs.com

Method of Shipment: UPS

Special Detection Limit/Reporting

PDF to Russ and On-Site, and EDD to On-Site.

Sample I.D.	Lab Sample No.	No. of Containers	Matrix: Soil	Water	Air	Other	Prsv.: Yes	No	Sampling Date	Sampling Time	GC:MS VOC's 8260 (HCl)	BOD (NP)	T-Cn (NaOH)	Alkalinity (NP)	Total Color (NP)	T-Metals (Baseline) (HNO3)	Hardness (HNO3)	TOC & Phenols (H2SO4)	TDS, Cr+6, NO3, Br, Cl, SO4 (NP)	NH3, TKN, COD (H2SO4)
GSS2EF-1119		12							11-5-19	1245	X	X	X	X	X	X	X	X	X	X

REMARKS

Sample Received Intact: Yes No

Temperature received: Ice No ice

Relinq. by sampler (Sign & Print Name)	Date	Time	Received by (Sign & Print Name)
Kevin Dye / Kevin Dye	11-5-19	1530	
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by laboratory: Date 11/6/19 Time 1145

Lab Work No.

R1910842 5
Casella Waste - Hyland
Hyland Facility - Baseline Parameters

Cooler Receipt and Preservation Check Form

R1910842 5
Casella Waste - Hyland
Hyland Facility - Baseline Parameters

Project/Client Casella Folder Number

Cooler received on 11/6/19 by: [illegible]

COURIER: ALS (UPS) FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) N	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	ALS/ROC CLIENT
4	Circle: (Wet Ice) **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

3. Temperature Readings Date: 11/6/19 Time: 1212 ID: IR#7 (IR#10) From: ~~Temp Blank~~ Sample Bottle

Observed Temp (°C)	1.6	4.2					
Within 0-6°C?	(Y) N	(Y) N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by [illegible] on 11/6/19 at 1218
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 11/6/19 Time: 1920 by: [illegible]

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12	230018	NaOH	✓		202153	9/20				
≤2	230	HNO_3	✓		1118081					
≤2	↓	H_2SO_4	✓		202739	10/20				
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For (CN, Phenol) 625, 608pest, 522	✓		If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**	J0050-11					

Bottle lot numbers: 19-09-03, 072215-18MC, 082619-04AA, 8081-02
Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: [illegible]
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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Analyst Summary report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910842
Project:	Hyland Facility - Baseline Parameters/		

Sample Name:	GSS2EF-1119	**Date Collected:**	11/5/19
Lab Code:	R1910842-001	**Date Received:**	11/6/19
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
350.1		MROGERSON
351.2	MROGERSON	GNITAJOUPPI
410.4		CWOODS
6010C	AKONZEL	NMANSEN
7196A		SMEDBURY
7470A	AKONZEL	KMCLAEN
8260C		AMOSES
9056A		KWONG
9066		BBOWE
Kelada-01		CWOODS
SM 2120 B-2001(2011)		KAWONG
SM 2320 B-1997(2011)		STALARICO
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		KMENGS
SM 5310 C-2000(2011)		SMEDBURY

INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Sample Results

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Volatile Organic Compounds by GC/MS

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910842
Project:	Hyland Facility - Baseline Parameters	**Date Collected:**	11/05/19 12:45
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	GSS2EF-1119	**Units:**	ug/L
Lab Code:	R1910842-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	5.0	U	5.0	0.20	1	11/08/19 01:46	
1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.21	1	11/08/19 01:46	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.20	1	11/08/19 01:46	
1,1,2-Trichloroethane	5.0	U	5.0	0.20	1	11/08/19 01:46	
1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	1	11/08/19 01:46	
1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.25	1	11/08/19 01:46	
1,2,3-Trichloropropane	5.0	U	5.0	0.26	1	11/08/19 01:46	
1,2-Dibromo-3-chloropropane (DBCP)	5.0	U	5.0	0.45	1	11/08/19 01:46	
1,2-Dibromoethane	5.0	U	5.0	0.20	1	11/08/19 01:46	
1,2-Dichlorobenzene	5.0	U	5.0	0.20	1	11/08/19 01:46	
1,2-Dichloroethane	5.0	U	5.0	0.20	1	11/08/19 01:46	
1,2-Dichloropropane	5.0	U	5.0	0.20	1	11/08/19 01:46	
1,4-Dichlorobenzene	5.0	U	5.0	0.20	1	11/08/19 01:46	
2-Butanone (MEK)	10	U	10	0.78	1	11/08/19 01:46	
2-Hexanone	10	U	10	0.20	1	11/08/19 01:46	
4-Methyl-2-pentanone	**0.49**	**J**	10	0.20	1	11/08/19 01:46	
Acetone	**5.1**	**BJ**	10	2.1	1	11/08/19 01:46	
Acrylonitrile	100	U	100	0.90	1	11/08/19 01:46	
Benzene	5.0	U	5.0	0.20	1	11/08/19 01:46	
Bromochloromethane	5.0	U	5.0	0.24	1	11/08/19 01:46	
Bromodichloromethane	5.0	U	5.0	0.22	1	11/08/19 01:46	
Bromoform	5.0	U	5.0	0.25	1	11/08/19 01:46	
Bromomethane	5.0	U	5.0	0.70	1	11/08/19 01:46	
Carbon Disulfide	10	U	10	0.25	1	11/08/19 01:46	
Carbon Tetrachloride	5.0	U	5.0	0.34	1	11/08/19 01:46	
Chlorobenzene	5.0	U	5.0	0.20	1	11/08/19 01:46	
Chloroethane	5.0	U	5.0	0.23	1	11/08/19 01:46	
Chloroform	5.0	U	5.0	0.24	1	11/08/19 01:46	
Chloromethane	**0.30**	**J**	5.0	0.28	1	11/08/19 01:46	
Dibromochloromethane	5.0	U	5.0	0.20	1	11/08/19 01:46	
Dibromomethane	5.0	U	5.0	0.20	1	11/08/19 01:46	
Methylene Chloride	5.0	U	5.0	0.36	1	11/08/19 01:46	
Ethylbenzene	5.0	U	5.0	0.20	1	11/08/19 01:46	
Iodomethane	10	U	10	1.2	1	11/08/19 01:46	
Styrene	5.0	U	5.0	0.20	1	11/08/19 01:46	
Tetrachloroethene (PCE)	5.0	U	5.0	0.21	1	11/08/19 01:46	
Toluene	5.0	U	5.0	0.20	1	11/08/19 01:46	
Trichloroethene (TCE)	5.0	U	5.0	0.20	1	11/08/19 01:46	
Trichlorofluoromethane (CFC 11)	5.0	U	5.0	0.24	1	11/08/19 01:46	
Vinyl Acetate	10	U	10	1.1	1	11/08/19 01:46	
Vinyl Chloride	5.0	U	5.0	0.20	1	11/08/19 01:46	
cis-1,2-Dichloroethene	5.0	U	5.0	0.23	1	11/08/19 01:46	
cis-1,3-Dichloropropene	5.0	U	5.0	0.20	1	11/08/19 01:46	

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910842
Project:	Hyland Facility - Baseline Parameters	**Date Collected:**	11/05/19 12:45
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	GSS2EF-1119	**Units:**	ug/L
Lab Code:	R1910842-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
m,p-Xylenes	5.0 U	5.0	0.20	1	11/08/19 01:46	
o-Xylene	5.0 U	5.0	0.20	1	11/08/19 01:46	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	11/08/19 01:46	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	11/08/19 01:46	
trans-1,4-Dichloro-2-butene	5.0 U	5.0	0.78	1	11/08/19 01:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	11/08/19 01:46	
Dibromofluoromethane	100	89 - 119	11/08/19 01:46	
Toluene-d8	100	87 - 121	11/08/19 01:46	

Metals

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METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Casella Waste Systems (Hampden M
Project No.: R1910842
Project Name:
Matrix: WATER

Service Request: GSS2EF-1119
Date Collected: 11/5/2019
Date Received: 11/6/2019
Units: ug/L
Basis:

Sample Name: GSS2EF-1119 **Lab Code:** R1910842-001

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	100	23.0	1.0	41.7	J	
Antimony	6010C	60.0	4.7	1.0	60.0	U	
Arsenic	6010C	10.0	3.9	1.0	10.0	U	
Barium	6010C	20.0	3.0	1.0	60.1		
Beryllium	6010C	3.0	0.130	1.0	3.0	U	
Boron	6010C	200	12.0	1.0	53.5	J	
Cadmium	6010C	5.0	0.350	1.0	5.0	U	
Mercury	7470A	0.200	0.077	1.0	0.200	U	
Calcium	6010C	1000	220	1.0	83900		
Chromium	6010C	10.0	0.590	1.0	10.0	U	
Cobalt	6010C	50.0	0.890	1.0	50.0	U	
Copper	6010C	20.0	3.9	1.0	20.0	U	
Iron	6010C	100	18.0	1.0	109		
Lead	6010C	50.0	2.1	1.0	50.0	U	
Magnesium	6010C	1000	29.0	1.0	23700		
Manganese	6010C	10.0	3.7	1.0	796		
Nickel	6010C	40.0	2.6	1.0	40.0	U	
Potassium	6010C	2000	200	1.0	3360		
Selenium	6010C	10.0	4.6	1.0	10.0	U	
Silver	6010C	10.0	0.570	1.0	10.0	U	
Sodium	6010C	1000	130	1.0	7390		
Thallium	6010C	10.0	6.6	1.0	10.0	U	
Vanadium	6010C	50.0	0.670	1.0	50.0	U	
Zinc	6010C	20.0	9.4	1.0	20.0	U	

% Solids: 0.0

Comments:

General Chemistry

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910842
Project:	Hyland Facility - Baseline Parameters	**Date Collected:**	11/05/19 12:45
Sample Matrix:	Water	**Date Received:**	11/06/19 11:45
Sample Name:	GSS2EF-1119	**Basis:**	NA
Lab Code:	R1910842-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**224**		mg/L	2.0	1.8	1	11/08/19 13:38	NA	
Ammonia as Nitrogen, undistilled	350.1	**0.063**		mg/L	0.050	0.003	1	11/08/19 21:46	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/07/19 06:32	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/06/19 18:51	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**1.8**		mg/L	1.0	0.5	1	11/14/19 07:21	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/10/19 14:47	NA	
Chloride	9056A	**5.8**		mg/L	2.0	0.5	10	11/06/19 18:51	NA	
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	0.003	1	11/06/19 20:31	NA	*
Color, True	SM 2120 B-2001(2011)	**15.0**		ColorUnits	1.0	-	1	11/07/19 07:00	NA	
Cyanide, Total	Kelada-01	0.0050	U	mg/L	0.0050	0.0040	1	11/13/19 18:44	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**307**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	0.2	10	11/06/19 18:51	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.15**	**J**	mg/L	0.20	0.10	1	11/08/19 13:05	11/07/19	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.63**		pH Units	-	-	1	11/08/19 14:40	NA	*
Phenolics, Total Recoverable	9066	**0.0010**	**J**	mg/L	0.0050	0.0010	1	11/12/19 00:04	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**390**		mg/L	10	9	1	11/08/19 08:10	NA	
Sulfate	9056A	**87.7**		mg/L	2.0	0.4	10	11/06/19 18:51	NA	

QC Summary Forms

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Volatile Organic Compounds by GC/MS

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QA/QC Report

Client: Casella Waste Systems (Hampden ME) **Service Request:** R1910842
Project: Hyland Facility - Baseline Parameters
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Sample Name	Lab Code	4-Bromofluorobenzene 85-122	Dibromofluoromethane 89-119	Toluene-d8 87-121
GSS2EF-1119	R1910842-001	95	100	100
Method Blank	RQ1913026-06	95	102	98
Lab Control Sample	RQ1913026-05	97	99	100

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910842
Project:	Hyland Facility - Baseline Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1913026-06	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	5.0	U	5.0	0.20	1	11/08/19 01:03	
1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.21	1	11/08/19 01:03	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.20	1	11/08/19 01:03	
1,1,2-Trichloroethane	5.0	U	5.0	0.20	1	11/08/19 01:03	
1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	1	11/08/19 01:03	
1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.25	1	11/08/19 01:03	
1,2,3-Trichloropropane	5.0	U	5.0	0.26	1	11/08/19 01:03	
1,2-Dibromo-3-chloropropane (DBCP)	5.0	U	5.0	0.45	1	11/08/19 01:03	
1,2-Dibromoethane	5.0	U	5.0	0.20	1	11/08/19 01:03	
1,2-Dichlorobenzene	5.0	U	5.0	0.20	1	11/08/19 01:03	
1,2-Dichloroethane	5.0	U	5.0	0.20	1	11/08/19 01:03	
1,2-Dichloropropane	5.0	U	5.0	0.20	1	11/08/19 01:03	
1,4-Dichlorobenzene	5.0	U	5.0	0.20	1	11/08/19 01:03	
2-Butanone (MEK)	10	U	10	0.78	1	11/08/19 01:03	
2-Hexanone	10	U	10	0.20	1	11/08/19 01:03	
4-Methyl-2-pentanone	10	U	10	0.20	1	11/08/19 01:03	
Acetone	**7.9**	**J**	10	2.1	1	11/08/19 01:03	
Acrylonitrile	100	U	100	0.90	1	11/08/19 01:03	
Benzene	5.0	U	5.0	0.20	1	11/08/19 01:03	
Bromochloromethane	5.0	U	5.0	0.24	1	11/08/19 01:03	
Bromodichloromethane	5.0	U	5.0	0.22	1	11/08/19 01:03	
Bromoform	5.0	U	5.0	0.25	1	11/08/19 01:03	
Bromomethane	5.0	U	5.0	0.70	1	11/08/19 01:03	
Carbon Disulfide	10	U	10	0.25	1	11/08/19 01:03	
Carbon Tetrachloride	5.0	U	5.0	0.34	1	11/08/19 01:03	
Chlorobenzene	5.0	U	5.0	0.20	1	11/08/19 01:03	
Chloroethane	5.0	U	5.0	0.23	1	11/08/19 01:03	
Chloroform	5.0	U	5.0	0.24	1	11/08/19 01:03	
Chloromethane	5.0	U	5.0	0.28	1	11/08/19 01:03	
Dibromochloromethane	5.0	U	5.0	0.20	1	11/08/19 01:03	
Dibromomethane	5.0	U	5.0	0.20	1	11/08/19 01:03	
Methylene Chloride	5.0	U	5.0	0.36	1	11/08/19 01:03	
Ethylbenzene	5.0	U	5.0	0.20	1	11/08/19 01:03	
Iodomethane	10	U	10	1.2	1	11/08/19 01:03	
Styrene	5.0	U	5.0	0.20	1	11/08/19 01:03	
Tetrachloroethene (PCE)	5.0	U	5.0	0.21	1	11/08/19 01:03	
Toluene	5.0	U	5.0	0.20	1	11/08/19 01:03	
Trichloroethene (TCE)	5.0	U	5.0	0.20	1	11/08/19 01:03	
Trichlorofluoromethane (CFC 11)	5.0	U	5.0	0.24	1	11/08/19 01:03	
Vinyl Acetate	10	U	10	1.1	1	11/08/19 01:03	
Vinyl Chloride	5.0	U	5.0	0.20	1	11/08/19 01:03	
cis-1,2-Dichloroethene	5.0	U	5.0	0.23	1	11/08/19 01:03	
cis-1,3-Dichloropropene	5.0	U	5.0	0.20	1	11/08/19 01:03	

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910842
Project:	Hyland Facility - Baseline Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1913026-06	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
m,p-Xylenes	5.0 U	5.0	0.20	1	11/08/19 01:03	
o-Xylene	5.0 U	5.0	0.20	1	11/08/19 01:03	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	11/08/19 01:03	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	11/08/19 01:03	
trans-1,4-Dichloro-2-butene	5.0 U	5.0	0.78	1	11/08/19 01:03	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	11/08/19 01:03	
Dibromofluoromethane	102	89 - 119	11/08/19 01:03	
Toluene-d8	98	87 - 121	11/08/19 01:03	

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QA/QC Report

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Baseline Parameters
Sample Matrix: Water

Service Request: R1910842
Date Analyzed: 11/07/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1913026-05

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	8260C	19.6	20.0	98	76-129
1,1,1-Trichloroethane (TCA)	8260C	18.7	20.0	94	75-125
1,1,2,2-Tetrachloroethane	8260C	17.9	20.0	90	78-126
1,1,2-Trichloroethane	8260C	18.2	20.0	91	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	17.8	20.0	89	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	18.1	20.0	90	71-118
1,2,3-Trichloropropane	8260C	16.3	20.0	81	75-118
1,2-Dibromo-3-chloropropane (DBCP)	8260C	19.5	20.0	98	55-136
1,2-Dibromoethane	8260C	19.3	20.0	96	82-127
1,2-Dichlorobenzene	8260C	18.0	20.0	90	80-119
1,2-Dichloroethane	8260C	16.5	20.0	82	71-127
1,2-Dichloropropane	8260C	17.2	20.0	86	80-119
1,4-Dichlorobenzene	8260C	17.6	20.0	88	79-119
2-Butanone (MEK)	8260C	15.5	20.0	77	61-137
2-Hexanone	8260C	16.3	20.0	81	63-124
4-Methyl-2-pentanone	8260C	16.1	20.0	80	66-124
Acetone	8260C	17.2	20.0	86	40-161
Acrylonitrile	8260C	83.1 J	100	83	71-130
Benzene	8260C	17.3	20.0	87	79-119
Bromochloromethane	8260C	18.3	20.0	91	81-126
Bromodichloromethane	8260C	18.1	20.0	91	81-123
Bromoform	8260C	19.6	20.0	98	65-146
Bromomethane	8260C	20.8	20.0	104	42-166
Carbon Disulfide	8260C	21.7	20.0	109	66-128
Carbon Tetrachloride	8260C	22.5	20.0	113	70-127
Chlorobenzene	8260C	18.7	20.0	93	80-121
Chloroethane	8260C	16.9	20.0	84	62-131
Chloroform	8260C	17.4	20.0	87	79-120
Chloromethane	8260C	17.5	20.0	87	65-135
Dibromochloromethane	8260C	19.5	20.0	98	72-128
Dibromomethane	8260C	17.5	20.0	88	80-118
Methylene Chloride	8260C	16.4	20.0	82	73-122
Ethylbenzene	8260C	18.0	20.0	90	76-120

ALS Group USA, Corp.
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QA/QC Report

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Baseline Parameters
Sample Matrix: Water

Service Request: R1910842
Date Analyzed: 11/07/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1913026-05

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Iodomethane	8260C	18.4	20.0	92	18-160
Styrene	8260C	18.0	20.0	90	80-124
Tetrachloroethene (PCE)	8260C	16.5	20.0	82	72-125
Toluene	8260C	17.9	20.0	90	79-119
Trichloroethene (TCE)	8260C	15.9	20.0	80	74-122
Trichlorofluoromethane (CFC 11)	8260C	18.6	20.0	93	71-136
Vinyl Acetate	8260C	20.9	20.0	105	52-174
Vinyl Chloride	8260C	17.9	20.0	90	74-159
cis-1,2-Dichloroethene	8260C	19.1	20.0	96	80-121
cis-1,3-Dichloropropene	8260C	17.8	20.0	89	77-122
m,p-Xylenes	8260C	36.5	40.0	91	80-126
o-Xylene	8260C	18.6	20.0	93	79-123
trans-1,2-Dichloroethene	8260C	17.4	20.0	87	73-118
trans-1,3-Dichloropropene	8260C	19.5	20.0	98	71-133
trans-1,4-Dichloro-2-butene	8260C	15.1	20.0	75	39-137

Metals

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METALS

-3-

BLANKS

Contract: R1910842

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: GSS2EF-1119

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	23.00	U	33.70	J	92.90	J	23.00	U	23.000	U	P
Antimony	6.40	J	4.70	U	4.70	U	4.70	U	4.700	U	P
Arsenic	3.90	U	3.90	U	3.90	U	3.90	U	3.900	U	P
Barium	7.00	J	6.00	J	3.20	J	5.30	J	-5.100	J	P
Beryllium	0.13	U	0.13	U	0.20	J	0.13	U	0.130	U	P
Boron	12.00	U	12.00	U	12.00	U	12.00	U	12.000	U	P
Cadmium	0.35	U	0.35	U	0.50	J	0.35	U	-0.500	J	P
Mercury	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U	CV
Calcium	220.00	U	220.00	U	220.00	U	220.00	U	220.000	U	P
Chromium	0.59	U	0.59	U	0.59	U	0.59	U	0.590	U	P
Cobalt	1.60	J	2.00	J	0.90	J	1.50	J	0.890	U	P
Copper	3.90	U	3.90	U	3.90	U	3.90	U	3.900	U	P
Iron	18.00	U	29.90	J	47.70	J	18.00	U	18.000	U	P
Lead	2.10	U	2.10	U	2.10	U	2.10	U	2.100	U	P
Magnesium	29.00	U	29.00	U	115.20	J	29.70	J	29.000	U	P
Manganese	3.70	U	3.70	U	3.70	U	3.70	U	3.700	U	P
Nickel	2.60	U	2.60	U	2.60	U	2.60	U	2.600	U	P
Potassium	200.00	U	200.00	U	200.00	U	200.00	U	200.000	U	P
Selenium	4.60	U	4.60	U	4.60	U	4.60	U	4.600	U	P
Silver	0.57	U	0.57	U	0.57	U	0.57	U	0.570	U	P
Sodium	130.00	U	150.80	J	130.00	U	130.00	U	130.000	U	P
Thallium	6.60	U	6.60	U	6.60	U	6.60	U	6.600	U	P
Vanadium	1.30	J	1.50	J	0.67	U	1.10	J	-1.500	J	P
Zinc	9.40	U	9.40	U	9.40	U	9.40	U	9.400	U	P

Comments:

METALS

-3-

BLANKS

Contract: R1910842

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: GSS2EF-1119

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			23.00	U	23.00	U	87.60	J			P
Antimony			4.70	U	4.70	U	4.70	U			P
Arsenic			3.90	U	3.90	U	3.90	U			P
Barium			10.80	J	6.50	J	3.00	U			P
Beryllium			0.20	J	0.13	U	0.20	J			P
Boron			12.00	U	12.00	U	12.00	U			P
Cadmium			0.60	J	0.40	J	0.35	U			P
Mercury			0.077	U							CV
Calcium			220.00	U	220.00	U	220.00	U			P
Chromium			0.59	U	0.59	U	0.59	U			P
Cobalt			2.80	J	2.00	J	0.89	U			P
Copper			3.90	U	3.90	U	3.90	U			P
Iron			18.00	U	18.00	U	44.90	J			P
Lead			2.10	U	2.10	U	2.10	U			P
Magnesium			49.90	J	29.00	U	104.70	J			P
Manganese			3.70	U	3.70	U	3.70	U			P
Nickel			2.60	U	2.60	U	2.60	U			P
Potassium			200.00	U	200.00	U	200.00	U			P
Selenium			4.60	U	4.60	U	4.60	U			P
Silver			0.57	U	0.57	U	0.57	U			P
Sodium			158.90	J	130.00	U	130.00	U			P
Thallium			7.80	J	6.60	U	6.60	U			P
Vanadium			2.10	J	1.10	J	0.67	U			P
Zinc			9.40	U	9.40	U	9.40	U			P

Comments:

ALS Environmental

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

GSS2EF-1119S

Contract: R1910842

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: GSS2EF-1119

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 100.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Mercury	75 - 125	0.933		0.077	U	1.00	93		CV

Comments:

ALS Environmental

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

GSS2EF-1119SD

Contract: R1910842

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: GSS2EF-1119

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 100.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Mercury	75 - 125	0.936		0.077	U	1.00	94		CV

Comments:

METALS
-6-
DUPLICATES

SAMPLE NO.: GSS2EF-1119SD

Contract: R1910842

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: GSS2EF-1119

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 100.0 % Solids for Duplicate: 100.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury		0.933		0.936		0		CV

Comments: _____

METALS

-7-

LABORATORY CONTROL SAMPLE

Contract: R1910842

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: GSS2EF-1119

Solid LCS Source: _____

Aqueous LCS Source: CPI

Analyte	Aqueous (ug/L			Solid (mg/K				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	2000	1810	90					
Antimony	500	472	94					
Arsenic	40	40	100					
Barium	2000	2100	105					
Beryllium	50	51	102					
Boron	1000	998	100					
Cadmium	50	52	104					
Mercury	1.000	1.010	101					
Calcium	2000	1710	86					
Chromium	200	205	102					
Cobalt	500	514	103					
Copper	250	233	93					
Iron	1000	973	97					
Lead	500	506	101					
Magnesium	2000	1940	97					
Manganese	500	503	101					
Nickel	500	505	101					
Potassium	20000	19300	96					
Selenium	1010	1070	106					
Silver	50	48	96					
Sodium	20000	20100	100					
Thallium	2000	1850	92					
Vanadium	500	500	100					
Zinc	500	510	102					

Comments: _____

General Chemistry

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910842
Project:	Hyland Facility - Baseline Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1910842-MB		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	U	mg/L	2.0	1.8	1	11/08/19 11:42	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/08/19 21:09	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/07/19 14:32	NA	
Bromide	9056A	0.10	U	mg/L	0.10	0.04	1	11/06/19 18:04	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	11/14/19 00:44	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/10/19 14:47	NA	
Chloride	9056A	0.20	U	mg/L	0.20	0.05	1	11/06/19 18:04	NA	
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	0.003	1	11/06/19 20:27	NA	
Color, True	SM 2120 B-2001(2011)	**1.0**		ColorUnits	1.0	-	1	11/07/19 07:00	NA	
Cyanide, Total	Kelada-01	0.0050	U	mg/L	0.0050	0.0040	1	11/13/19 15:37	NA	
Nitrate as Nitrogen	9056A	0.10	U	mg/L	0.10	0.02	1	11/06/19 18:04	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20	U	mg/L	0.20	0.1	1	11/08/19 12:57	11/07/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.001	1	11/11/19 21:47	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	10	U	mg/L	10	9	1	11/08/19 08:10	NA	
Sulfate	9056A	0.20	U	mg/L	0.20	0.04	1	11/06/19 18:04	NA	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Baseline Parameters
Sample Matrix: Water

Service Request:R1910842
Date Collected:11/05/19
Date Received:11/06/19
Date Analyzed:11/6/19

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: GSS2EF-1119
Lab Code: R1910842-001

Units:mg/L
Basis:NA

			Matrix Spike R1910842-001MS			Duplicate Matrix Spike R1910842-001DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Bromide	9056A	1.0 U	10.2	10.0	102	10.1	10.0	101	80-120	<1	15
Chloride	9056A	5.8	26.2	20.0	102	26.1	20.0	101	80-120	<1	15
Nitrate as Nitrogen	9056A	1.0 U	10.2	10.0	102	10.2	10.0	102	80-120	<1	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Baseline Parameters
Sample Matrix: Water

Service Request: R1910842
Date Analyzed: 11/06/19 - 11/14/19

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1910842-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	18.8	20.0	94	80-120
Ammonia as Nitrogen, undistilled	350.1	0.250	0.250	100	90-110
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	184	198	93	85-115
Bromide	9056A	1.00	1.00	100	80-120
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.2	10.0	102	80-121
Chemical Oxygen Demand, Total	410.4	51.6	50.0	103	90-110
Chloride	9056A	2.07	2.00	103	80-120
Chromium, Hexavalent	7196A	0.108	0.100	108	80-120
Cyanide, Total	Kelada-01	0.0960	0.100	96	90-110
Nitrate as Nitrogen	9056A	1.02	1.00	102	80-120
Nitrogen, Total Kjeldahl (TKN)	351.2	2.35	2.50	94	90-110
Phenolics, Total Recoverable	9066	0.0401	0.0400	100	85-115
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	914	914	100	90-110
Sulfate	9056A	2.02	2.00	101	80-120

November 21, 2019 Service Request No:R1910784

Russell Anderson
Casella Waste - Hyland
4 Chenell Drive
Suite 200
Concord, NH 03301

Laboratory Results for: Hyland Facility - Baseline Parameters

Dear Russell,

Enclosed are the results of the sample(s) submitted to our laboratory November 05, 2019
For your reference, these analyses have been assigned our service request number **R1910784.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro for

Janice Jaeger
Project Manager

CC: Jon Brandes

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dba ALS Environmental

Narrative Documents

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ALS Environmental

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Baseline Parameters
Sample Matrix: Water

Service Request: R1910784
Date Received: 11/05/2019

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 11/05/2019. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

Method 7196A: One or more samples were received with insufficient hold time remaining to complete the analysis within the recommended limit. The analysis was performed as soon as possible after receipt by the laboratory. The data is flagged to indicate the holding time exceedance.

Volatiles by GC/MS:

Method 8260C, 11/06/2019: The Method Blank contained a low level of the following analytes above the Reporting Limit: acetone. All associated sample results less than ten times the level found in the Method Blank are flagged. The samples were not reprepared/reanalyzed because of contaminated vials.

Method 8260C, 11/06/2019: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Approved by _____ Date 11/21/2019

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1910784-001	GSS3-1119	11/4/2019	1320

CHAIN of CUSTODY

Page 1 of 1

ALS-Environmental
1565 Jefferson Rd, Bldg 300, Suite 360
Rochester, NY 14623
585.288.5380

Client: Casella/On-Site
6653 Herdman Road
Angelica, NY 14709

Project Manager: Russ Anderson/Jon Brandes

Project: Hyland Facility - Baseline Parameters

Telephone No.: 585-593-1824

Email: jonb@on-sitehs.com

Method of Shipment: UPS

Special Detection Limit/Reporting

PDF to Russ and On-Site, and EDD to On-Site.

Sample I.D.	Lab Sample No.	No. of Containers	Matrix: Soil	Water	Air	Other	Prsv.: Yes	No	Sampling Date	Sampling Time	GC;MS VOC's 8260 (HCl)	BOD (NP)	T-Cn (NaOH)	Alkalinity (NP)	Total Color (NP)	T-Metals (Baseline) (HNO3)	Hardness (HNO3)	TOC & Phenols (H2SO4)	TDS, Cr+6, NO3, Br, Cl, SO4 (NP)	NH3, TKN, COD (H2SO4)						
GSS3-1119		12		X			X	X	11-4-19	1320	X	X	X	X	X	X	X	X	X	X						

REMARKS

Sample Received Intact: Yes No

Temperature received: Ice No ice

Relinq. by sampler (Sign & Print Name)	Date	Time	Received by (Sign & Print Name)
Kevin Dye / Kevin Dye	11-4-19	1540	
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by laboratory: Date 11/5/19 Time 1155

Lab Work No.

R1910784 5
Casella Waste - Hyland
Hyland Facility - Baseline Parameters

R1910784 5
Casella Waste - Hyland
Hyland Facility - Baseline Parameters

ALS

Cooler Receipt and Preservation Check Form

Project/Client Casella - Hyland Folder Number ____

Cooler received on 11/5/19 by: [illegible] **COURIER:** ALS (UPS) FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) N	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did (VOA vials, Alk, or) Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (Wet Ice) Dry Ice Gel packs present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 11/5/19 Time: 1213 ID: IR#7 (IR#10) From: (Temp Blank) Sample Bottle

Observed Temp (°C)	1.1						
Correction Factor (°C)	–						
Corrected Temp (°C)							
Temp from:Type of bottle							
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: ____ Ice melted Poorly Packed (described below) Same Day Rule
&Client Approval to Run Samples: ____ Standing Approval Client aware at drop-off Client notified by: ____

All samples held in storage location: R-002 by [illegible] on 11/5/19 at 1218
5035 samples placed in storage location: ____ by ____ on ____ at ____

Cooler Breakdown/Preservation Check**: Date : 11/5/19 Time: 1510 by: [illegible]

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12	230018	NaOH	✓		202153	10/20				
≤2	↓	HNO_3	✓		1118081					
≤2	↓	H_2SO_4	✓		202739	↓				
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For (CN, Phenol) 625, 608pest, 522	✓		If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**	J050-11					

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 093019-1BMC, 082619-2AM, 19-03-09, 80815-02, 072219-1BMC
Explain all Discrepancies/ Other Comments:

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: [illegible]
PC Secondary Review: ____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r16.doc 3/12/18

Miscellaneous Forms

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910784
Project:	Hyland Facility - Baseline Parameters/		

Sample Name:	GSS3-1119	**Date Collected:**	11/4/19
Lab Code:	R1910784-001	**Date Received:**	11/5/19
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
350.1		MROGERSON
351.2	NSMITH	GNITAJOUPPI
410.4		CWOODS
6010C	AKONZEL	KMCLAEN
7196A		SMEDBURY
7470A	AKONZEL	KMCLAEN
8260C		FNAEGLER
9056A		KAWONG
9056A		KWONG
9066		BBOWE
Kelada-01		CWOODS
SM 2120 B-2001(2011)		KAWONG
SM 2320 B-1997(2011)		STALARICO
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		CWOODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Sample Results

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Volatile Organic Compounds by GC/MS

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Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910784
Project:	Hyland Facility - Baseline Parameters	**Date Collected:**	11/04/19 13:20
Sample Matrix:	Water	**Date Received:**	11/05/19 11:55
Sample Name:	GSS3-1119	**Units:**	ug/L
Lab Code:	R1910784-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	5.0 U	5.0	0.20	1	11/06/19 17:28	
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.21	1	11/06/19 17:28	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	11/06/19 17:28	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	11/06/19 17:28	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	11/06/19 17:28	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.25	1	11/06/19 17:28	
1,2,3-Trichloropropane	5.0 U	5.0	0.26	1	11/06/19 17:28	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	0.45	1	11/06/19 17:28	
1,2-Dibromoethane	5.0 U	5.0	0.20	1	11/06/19 17:28	
1,2-Dichlorobenzene	5.0 U	5.0	0.20	1	11/06/19 17:28	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	11/06/19 17:28	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	11/06/19 17:28	
1,4-Dichlorobenzene	5.0 U	5.0	0.20	1	11/06/19 17:28	
2-Butanone (MEK)	**1.8 J**	10	0.78	1	11/06/19 17:28	
2-Hexanone	10 U	10	0.20	1	11/06/19 17:28	
4-Methyl-2-pentanone	**0.46 J**	10	0.20	1	11/06/19 17:28	
Acetone	**5.2 BJ**	10	2.1	1	11/06/19 17:28	
Acrylonitrile	100 U	100	0.90	1	11/06/19 17:28	
Benzene	5.0 U	5.0	0.20	1	11/06/19 17:28	
Bromochloromethane	5.0 U	5.0	0.24	1	11/06/19 17:28	
Bromodichloromethane	5.0 U	5.0	0.22	1	11/06/19 17:28	
Bromoform	5.0 U	5.0	0.25	1	11/06/19 17:28	
Bromomethane	5.0 U	5.0	0.70	1	11/06/19 17:28	
Carbon Disulfide	10 U	10	0.25	1	11/06/19 17:28	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	11/06/19 17:28	
Chlorobenzene	5.0 U	5.0	0.20	1	11/06/19 17:28	
Chloroethane	5.0 U	5.0	0.23	1	11/06/19 17:28	
Chloroform	5.0 U	5.0	0.24	1	11/06/19 17:28	
Chloromethane	**0.33 BJ**	5.0	0.28	1	11/06/19 17:28	
Dibromochloromethane	5.0 U	5.0	0.20	1	11/06/19 17:28	
Dibromomethane	5.0 U	5.0	0.20	1	11/06/19 17:28	
Methylene Chloride	5.0 U	5.0	0.36	1	11/06/19 17:28	
Ethylbenzene	5.0 U	5.0	0.20	1	11/06/19 17:28	
Iodomethane	10 U	10	1.2	1	11/06/19 17:28	
Styrene	5.0 U	5.0	0.20	1	11/06/19 17:28	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	11/06/19 17:28	
Toluene	5.0 U	5.0	0.20	1	11/06/19 17:28	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	11/06/19 17:28	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	0.24	1	11/06/19 17:28	
Vinyl Acetate	10 U	10	1.1	1	11/06/19 17:28	
Vinyl Chloride	5.0 U	5.0	0.20	1	11/06/19 17:28	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	11/06/19 17:28	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	11/06/19 17:28	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910784
Project:	Hyland Facility - Baseline Parameters	**Date Collected:**	11/04/19 13:20
Sample Matrix:	Water	**Date Received:**	11/05/19 11:55
Sample Name:	GSS3-1119	**Units:**	ug/L
Lab Code:	R1910784-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
m,p-Xylenes	5.0 U	5.0	0.20	1	11/06/19 17:28	
o-Xylene	5.0 U	5.0	0.20	1	11/06/19 17:28	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	11/06/19 17:28	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	11/06/19 17:28	
trans-1,4-Dichloro-2-butene	5.0 U	5.0	0.78	1	11/06/19 17:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	11/06/19 17:28	
Dibromofluoromethane	99	89 - 119	11/06/19 17:28	
Toluene-d8	104	87 - 121	11/06/19 17:28	

Metals

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METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Casella Waste Systems (Hampden M
Project No.: R1910784
Project Name:
Matrix: WATER

Service Request: GSS3-1119
Date Collected: 11/4/2019
Date Received: 11/5/2019
Units: ug/L
Basis:

Sample Name: GSS3-1119 **Lab Code:** R1910784-001

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	100	23.0	1.0	31.0	J	
Antimony	6010C	60.0	4.7	1.0	60.0	U	
Arsenic	6010C	10.0	3.9	1.0	17.4		
Barium	6010C	20.0	3.0	1.0	83.3		
Beryllium	6010C	3.0	0.130	1.0	3.0	U	
Boron	6010C	200	12.0	1.0	91.2	J	
Cadmium	6010C	5.0	0.350	1.0	5.0	U	
Mercury	7470A	0.200	0.077	1.0	0.200	U	
Calcium	6010C	1000	220	1.0	94500		
Chromium	6010C	10.0	0.590	1.0	10.0	U	
Cobalt	6010C	50.0	0.890	1.0	50.0	U	
Copper	6010C	20.0	3.9	1.0	20.0	U	
Iron	6010C	100	18.0	1.0	278		
Lead	6010C	50.0	2.1	1.0	50.0	U	
Magnesium	6010C	1000	29.0	1.0	34700		
Manganese	6010C	10.0	3.7	1.0	919		
Nickel	6010C	40.0	2.6	1.0	40.0	U	
Potassium	6010C	2000	200	1.0	5650		
Selenium	6010C	10.0	4.6	1.0	10.0	U	
Silver	6010C	10.0	0.570	1.0	10.0	U	
Sodium	6010C	1000	130	1.0	10700		
Thallium	6010C	10.0	6.6	1.0	10.0	U	
Vanadium	6010C	50.0	0.670	1.0	50.0	U	
Zinc	6010C	20.0	9.4	1.0	20.0	U	

% Solids: 0.0

Comments:

General Chemistry

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910784
Project:	Hyland Facility - Baseline Parameters	**Date Collected:**	11/04/19 13:20
Sample Matrix:	Water	**Date Received:**	11/05/19 11:55
Sample Name:	GSS3-1119	**Basis:**	NA
Lab Code:	R1910784-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**270**		mg/L	2.0	1.8	1	11/06/19 17:33	NA	
Ammonia as Nitrogen, undistilled	350.1	**0.080**		mg/L	0.050	0.003	1	11/08/19 20:39	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/06/19 08:31	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/06/19 10:25	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**1.3**		mg/L	1.0	0.5	1	11/09/19 05:54	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/10/19 14:47	NA	
Chloride	9056A	**5.7**		mg/L	2.0	0.5	10	11/06/19 10:25	NA	
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	0.003	1	11/05/19 15:07	NA	*
Color, True	SM 2120 B-2001(2011)	**7.0**		ColorUnits	1.0	-	1	11/05/19 13:25	NA	
Cyanide, Total	Kelada-01	0.0050	U	mg/L	0.0050	0.0040	1	11/06/19 19:06	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**379**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	0.2	10	11/06/19 10:25	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.15**	**J**	mg/L	0.20	0.10	1	11/08/19 12:18	11/07/19	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.36**		pH Units	-	-	1	11/08/19 14:40	NA	*
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/11/19 21:33	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**476**		mg/L	10	9	1	11/07/19 11:15	NA	
Sulfate	9056A	**127**		mg/L	4.0	0.8	20	11/07/19 20:35	NA	

QC Summary Forms

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Volatile Organic Compounds by GC/MS

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Client: Casella Waste Systems (Hampden ME) **Service Request:** R1910784
Project: Hyland Facility - Baseline Parameters
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85-122	Dibromofluoromethane 89-119	Toluene-d8 87-121
GSS3-1119	R1910784-001	103	99	104
Method Blank	RQ1913007-10	103	99	103
Lab Control Sample	RQ1913007-09	108	104	104

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910784
Project:	Hyland Facility - Baseline Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1913007-10	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	5.0	U	5.0	0.20	1	11/06/19 14:43	
1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.21	1	11/06/19 14:43	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.20	1	11/06/19 14:43	
1,1,2-Trichloroethane	5.0	U	5.0	0.20	1	11/06/19 14:43	
1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	1	11/06/19 14:43	
1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.25	1	11/06/19 14:43	
1,2,3-Trichloropropane	5.0	U	5.0	0.26	1	11/06/19 14:43	
1,2-Dibromo-3-chloropropane (DBCP)	5.0	U	5.0	0.45	1	11/06/19 14:43	
1,2-Dibromoethane	5.0	U	5.0	0.20	1	11/06/19 14:43	
1,2-Dichlorobenzene	5.0	U	5.0	0.20	1	11/06/19 14:43	
1,2-Dichloroethane	5.0	U	5.0	0.20	1	11/06/19 14:43	
1,2-Dichloropropane	5.0	U	5.0	0.20	1	11/06/19 14:43	
1,4-Dichlorobenzene	5.0	U	5.0	0.20	1	11/06/19 14:43	
2-Butanone (MEK)	10	U	10	0.78	1	11/06/19 14:43	
2-Hexanone	10	U	10	0.20	1	11/06/19 14:43	
4-Methyl-2-pentanone	10	U	10	0.20	1	11/06/19 14:43	
Acetone	**29**		10	2.1	1	11/06/19 14:43	
Acrylonitrile	100	U	100	0.90	1	11/06/19 14:43	
Benzene	5.0	U	5.0	0.20	1	11/06/19 14:43	
Bromochloromethane	5.0	U	5.0	0.24	1	11/06/19 14:43	
Bromodichloromethane	5.0	U	5.0	0.22	1	11/06/19 14:43	
Bromoform	5.0	U	5.0	0.25	1	11/06/19 14:43	
Bromomethane	5.0	U	5.0	0.70	1	11/06/19 14:43	
Carbon Disulfide	10	U	10	0.25	1	11/06/19 14:43	
Carbon Tetrachloride	5.0	U	5.0	0.34	1	11/06/19 14:43	
Chlorobenzene	5.0	U	5.0	0.20	1	11/06/19 14:43	
Chloroethane	5.0	U	5.0	0.23	1	11/06/19 14:43	
Chloroform	5.0	U	5.0	0.24	1	11/06/19 14:43	
Chloromethane	**1.5**	**J**	5.0	0.28	1	11/06/19 14:43	
Dibromochloromethane	5.0	U	5.0	0.20	1	11/06/19 14:43	
Dibromomethane	5.0	U	5.0	0.20	1	11/06/19 14:43	
Methylene Chloride	5.0	U	5.0	0.36	1	11/06/19 14:43	
Ethylbenzene	5.0	U	5.0	0.20	1	11/06/19 14:43	
Iodomethane	10	U	10	1.2	1	11/06/19 14:43	
Styrene	5.0	U	5.0	0.20	1	11/06/19 14:43	
Tetrachloroethene (PCE)	5.0	U	5.0	0.21	1	11/06/19 14:43	
Toluene	5.0	U	5.0	0.20	1	11/06/19 14:43	
Trichloroethene (TCE)	5.0	U	5.0	0.20	1	11/06/19 14:43	
Trichlorofluoromethane (CFC 11)	5.0	U	5.0	0.24	1	11/06/19 14:43	
Vinyl Acetate	10	U	10	1.1	1	11/06/19 14:43	
Vinyl Chloride	5.0	U	5.0	0.20	1	11/06/19 14:43	
cis-1,2-Dichloroethene	5.0	U	5.0	0.23	1	11/06/19 14:43	
cis-1,3-Dichloropropene	5.0	U	5.0	0.20	1	11/06/19 14:43	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910784
Project:	Hyland Facility - Baseline Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1913007-10	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
m,p-Xylenes	5.0 U	5.0	0.20	1	11/06/19 14:43	
o-Xylene	5.0 U	5.0	0.20	1	11/06/19 14:43	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	11/06/19 14:43	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	11/06/19 14:43	
trans-1,4-Dichloro-2-butene	5.0 U	5.0	0.78	1	11/06/19 14:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	11/06/19 14:43	
Dibromofluoromethane	99	89 - 119	11/06/19 14:43	
Toluene-d8	103	87 - 121	11/06/19 14:43	

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Baseline Parameters
Sample Matrix: Water

Service Request: R1910784
Date Analyzed: 11/06/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1913007-09

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	8260C	18.5	20.0	92	76-129
1,1,1-Trichloroethane (TCA)	8260C	18.3	20.0	91	75-125
1,1,2,2-Tetrachloroethane	8260C	22.1	20.0	110	78-126
1,1,2-Trichloroethane	8260C	20.4	20.0	102	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	20.6	20.0	103	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	19.3	20.0	97	71-118
1,2,3-Trichloropropane	8260C	17.2	20.0	86	75-118
1,2-Dibromo-3-chloropropane (DBCP)	8260C	13.8	20.0	69	55-136
1,2-Dibromoethane	8260C	18.7	20.0	94	82-127
1,2-Dichlorobenzene	8260C	19.3	20.0	96	80-119
1,2-Dichloroethane	8260C	21.1	20.0	106	71-127
1,2-Dichloropropane	8260C	20.7	20.0	104	80-119
1,4-Dichlorobenzene	8260C	19.1	20.0	96	79-119
2-Butanone (MEK)	8260C	18.6	20.0	93	61-137
2-Hexanone	8260C	18.0	20.0	90	63-124
4-Methyl-2-pentanone	8260C	19.5	20.0	97	66-124
Acetone	8260C	28.5	20.0	143	40-161
Acrylonitrile	8260C	94.3 J	100	94	71-130
Benzene	8260C	20.0	20.0	100	79-119
Bromochloromethane	8260C	20.3	20.0	101	81-126
Bromodichloromethane	8260C	19.7	20.0	99	81-123
Bromoform	8260C	16.4	20.0	82	65-146
Bromomethane	8260C	25.7	20.0	128	42-166
Carbon Disulfide	8260C	21.7	20.0	108	66-128
Carbon Tetrachloride	8260C	16.6	20.0	83	70-127
Chlorobenzene	8260C	18.9	20.0	94	80-121
Chloroethane	8260C	20.6	20.0	103	62-131
Chloroform	8260C	19.4	20.0	97	79-120
Chloromethane	8260C	24.1	20.0	120	65-135
Dibromochloromethane	8260C	19.1	20.0	95	72-128
Dibromomethane	8260C	19.8	20.0	99	80-118
Methylene Chloride	8260C	20.4	20.0	102	73-122
Ethylbenzene	8260C	18.0	20.0	90	76-120

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Baseline Parameters
Sample Matrix: Water

Service Request: R1910784
Date Analyzed: 11/06/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1913007-09

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Iodomethane	8260C	21.8	20.0	109	18-160
Styrene	8260C	19.2	20.0	96	80-124
Tetrachloroethene (PCE)	8260C	16.4	20.0	82	72-125
Toluene	8260C	19.5	20.0	98	79-119
Trichloroethene (TCE)	8260C	16.6	20.0	83	74-122
Trichlorofluoromethane (CFC 11)	8260C	19.7	20.0	99	71-136
Vinyl Acetate	8260C	19.8	20.0	99	52-174
Vinyl Chloride	8260C	21.0	20.0	105	74-159
cis-1,2-Dichloroethene	8260C	20.3	20.0	101	80-121
cis-1,3-Dichloropropene	8260C	19.1	20.0	95	77-122
m,p-Xylenes	8260C	36.3	40.0	91	80-126
o-Xylene	8260C	18.7	20.0	94	79-123
trans-1,2-Dichloroethene	8260C	19.6	20.0	98	73-118
trans-1,3-Dichloropropene	8260C	18.1	20.0	90	71-133
trans-1,4-Dichloro-2-butene	8260C	18.0	20.0	90	39-137

Metals

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METALS

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BLANKS

Contract: R1910784

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: GSS3-1119

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	23.00	U	23.00	U	23.00	U	23.00	U	23.000	U	P
Antimony	4.70	U	4.70	U	4.70	U	4.70	U	4.700	U	P
Arsenic	3.90	U	3.90	U	3.90	U	3.90	U	3.900	U	P
Barium	3.00	U	3.00	U	3.00	U	3.00	U	3.000	U	P
Beryllium	0.13	U	0.13	U	0.13	U	0.13	U	0.130	U	P
Boron	12.00	U	12.00	U	12.00	U	12.00	U	12.000	U	P
Cadmium	0.35	U	0.35	U	0.35	U	0.35	U	0.350	U	P
Mercury	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U	CV
Calcium	220.00	U	220.00	U	220.00	U	220.00	U	220.000	U	P
Chromium	0.59	U	0.59	U	0.59	U	0.59	U	0.590	U	P
Cobalt	0.89	U	0.89	U	0.89	U	0.89	U	0.890	U	P
Copper	3.90	U	3.90	U	3.90	U	3.90	U	3.900	U	P
Iron	18.00	U	18.00	U	18.00	U	18.00	U	18.000	U	P
Lead	2.10	U	2.10	U	-2.50	J	2.10	U	2.100	U	P
Magnesium	29.00	U	29.00	U	29.00	U	29.00	U	29.000	U	P
Manganese	3.70	U	3.70	U	3.70	U	3.70	U	3.700	U	P
Nickel	2.60	U	2.60	U	2.60	U	2.60	U	2.600	U	P
Potassium	200.00	U	200.00	U	200.00	U	200.00	U	200.000	U	P
Selenium	4.60	U	4.60	U	4.60	U	4.60	U	4.600	U	P
Silver	0.57	U	0.57	U	0.57	U	0.57	U	0.570	U	P
Sodium	130.00	U	130.00	U	130.00	U	130.00	U	130.000	U	P
Thallium	6.60	U	6.60	U	6.60	U	6.60	U	6.600	U	P
Vanadium	0.67	U	0.67	U	0.67	U	0.67	U	0.670	U	P
Zinc	9.40	U	9.40	U	9.40	U	9.40	U	9.400	U	P

Comments:

METALS

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BLANKS

Contract: R1910784

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: GSS3-1119

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			23.00	U	23.00	U					P
Antimony			4.70	U	4.70	U					P
Arsenic			3.90	U	3.90	U					P
Barium			3.00	U	3.00	U					P
Beryllium			0.13	U	0.13	U					P
Boron			12.00	U	12.00	U					P
Cadmium			0.35	U	0.35	U					P
Mercury			0.077	U							CV
Calcium			220.00	U	220.00	U					P
Chromium			0.59	U	0.59	U					P
Cobalt			0.89	U	0.89	U					P
Copper			3.90	U	3.90	U					P
Iron			18.00	U	18.00	U					P
Lead			2.10	U	2.10	U					P
Magnesium			29.00	U	29.00	U					P
Manganese			3.70	U	3.70	U					P
Nickel			2.60	U	2.60	U					P
Potassium			200.00	U	200.00	U					P
Selenium			4.60	U	4.60	U					P
Silver			0.57	U	0.57	U					P
Sodium			130.00	U	130.00	U					P
Thallium			6.60	U	6.60	U					P
Vanadium			0.67	U	0.67	U					P
Zinc			9.40	U	9.40	U					P

Comments:

METALS
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DUPLICATES

SAMPLE NO.: DLCSW

Contract: R1910784

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: GSS3-1119

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		1810		1790		1		P
Antimony		482		476		1		P
Arsenic		40		42		5		P
Barium		2110		2080		1		P
Beryllium		51		50		2		P
Boron		1000		988		1		P
Cadmium		52		51		2		P
Calcium		1790		1770		1		P
Chromium		206		204		1		P
Cobalt		517		510		1		P
Copper		235		232		1		P
Iron		975		962		1		P
Lead		507		500		1		P
Magnesium		1940		1910		2		P
Manganese		505		498		1		P
Nickel		509		501		2		P
Potassium		19400		19200		1		P
Selenium		1080		1070		1		P
Silver		49		48		2		P
Sodium		20100		19800		2		P
Thallium		1860		1830		2		P
Vanadium		505		498		1		P
Zinc		512		503		2		P

Comments: _____

METALS

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LABORATORY CONTROL SAMPLE

Contract: R1910784

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: GSS3-1119

Solid LCS Source: _____

Aqueous LCS Source: CPI

Analyte	Aqueous (ug/L			Solid (mg/K				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	2000	1810	90					
Antimony	500	482	96					
Arsenic	40	40	100					
Barium	2000	2110	106					
Beryllium	50	51	102					
Boron	1000	1000	100					
Cadmium	50	52	104					
Mercury	1.000	1.010	101					
Calcium	2000	1790	90					
Chromium	200	206	103					
Cobalt	500	517	103					
Copper	250	235	94					
Iron	1000	975	98					
Lead	500	507	101					
Magnesium	2000	1940	97					
Manganese	500	505	101					
Nickel	500	509	102					
Potassium	20000	19400	97					
Selenium	1010	1080	107					
Silver	50	49	98					
Sodium	20000	20100	100					
Thallium	2000	1860	93					
Vanadium	500	505	101					
Zinc	500	512	102					

Comments: _____

METALS

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LABORATORY CONTROL SAMPLE

Contract: R1910784

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: GSS3-1119

Solid LCS Source: _____

Aqueous LCS Source: CPI

Analyte	Aqueous (ug/L			Solid (mg/K				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	2000	1790	90					
Antimony	500	476	95					
Arsenic	40	42	105					
Barium	2000	2080	104					
Beryllium	50	50	100					
Boron	1000	988	99					
Cadmium	50	51	102					
Calcium	2000	1770	88					
Chromium	200	204	102					
Cobalt	500	510	102					
Copper	250	232	93					
Iron	1000	962	96					
Lead	500	500	100					
Magnesium	2000	1910	96					
Manganese	500	498	100					
Nickel	500	501	100					
Potassium	20000	19200	96					
Selenium	1010	1070	106					
Silver	50	48	96					
Sodium	20000	19800	99					
Thallium	2000	1830	92					
Vanadium	500	498	100					
Zinc	500	503	101					

Comments: _____

General Chemistry

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www.alsglobal.com

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910784
Project:	Hyland Facility - Baseline Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1910784-MB		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	U	mg/L	2.0	1.8	1	11/06/19 15:50	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/08/19 20:02	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/06/19 17:20	NA	
Bromide	9056A	0.10	U	mg/L	0.10	0.04	1	11/06/19 09:37	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	11/09/19 03:07	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/10/19 14:47	NA	
Chloride	9056A	0.20	U	mg/L	0.20	0.05	1	11/06/19 09:37	NA	
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	0.003	1	11/05/19 14:55	NA	
Color, True	SM 2120 B-2001(2011)	**1.0**		ColorUnits	1.0	-	1	11/05/19 13:25	NA	
Cyanide, Total	Kelada-01	0.0050	U	mg/L	0.0050	0.0040	1	11/06/19 17:02	NA	
Nitrate as Nitrogen	9056A	0.10	U	mg/L	0.10	0.02	1	11/06/19 09:37	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20	U	mg/L	0.20	0.10	1	11/08/19 12:04	11/07/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.001	1	11/11/19 19:56	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	10	U	mg/L	10	9	1	11/07/19 11:15	NA	
Sulfate	9056A	0.20	U	mg/L	0.20	0.04	1	11/07/19 17:02	NA	

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910784
Project	Hyland Facility - Baseline Parameters	**Date Collected:**	11/04/19
Sample Matrix:	Water	**Date Received:**	11/05/19
		Date Analyzed:	11/05/19

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	GSS3-1119	**Units:**	ColorUnits
Lab Code:	R1910784-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R1910784-001DUP Result	Average	RPD	RPD Limit
Color, True	SM 2120 B-2001(2011)	1.0	7.0	7.0	7.00	<1	5

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1910784
Project	Hyland Facility - Baseline Parameters	**Date Collected:**	11/04/19
Sample Matrix:	Water	**Date Received:**	11/05/19
		Date Analyzed:	11/08/19

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	GSS3-1119	**Units:**	pH Units
Lab Code:	R1910784-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R1910784-001DUP Result	Average	RPD	RPD Limit
pH of Color Analysis	SM 2120 B-2001(2011)	-	7.36	7.36	7.36	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Baseline Parameters
Sample Matrix: Water

Service Request: R1910784
Date Analyzed: 11/05/19 - 11/11/19

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1910784-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	19.2	20.0	96	80-120
Ammonia as Nitrogen, undistilled	350.1	0.251	0.250	101	90-110
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	185	198	93	85-115
Bromide	9056A	1.01	1.00	101	80-120
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.1	10.0	101	80-121
Chemical Oxygen Demand, Total	410.4	50.0	50.0	100	90-110
Chloride	9056A	2.03	2.00	102	80-120
Chromium, Hexavalent	7196A	0.108	0.100	108	80-120
Cyanide, Total	Kelada-01	0.0994	0.100	99	90-110
Nitrate as Nitrogen	9056A	1.01	1.00	101	80-120
Nitrogen, Total Kjeldahl (TKN)	351.2	2.31	2.50	92	90-110
Phenolics, Total Recoverable	9066	0.0403	0.0400	101	85-115
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	900	914	98	90-110
Sulfate	9056A	2.02	2.00	101	80-120

November 20, 2019 Service Request No:R1911087

Russell Anderson
Casella Waste - Hyland
4 Chenell Drive
Suite 200
Concord, NH 03301

Laboratory Results for: Hyland Facility - Routine Parameters

Dear Russell,

Enclosed are the results of the sample(s) submitted to our laboratory November 12, 2019
For your reference, these analyses have been assigned our service request number **R1911087.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro for

Janice Jaeger
Project Manager

CC: Jon Brandes

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dba ALS Environmental

Narrative Documents

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Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request: R1911087
Date Received: 11/12/2019 - 11/13/2019

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Eleven water samples were received for analysis at ALS Environmental on 11/12/2019 - 11/13/2019. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

Method 351.2, 11/15/2019: The Continuing Calibration Blank (CCB) contained a low level of one or more analytes above the Method Reporting Limit (MRL). Since there were no detections of the analyte(s) in the associated field samples above the reporting level, there is no significant impact on the data.

Approved by _____ Date 11/20/2019

SAMPLE DETECTION SUMMARY

CLIENT ID: DB3-1119			Lab ID: R1911087-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	92.0		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.107		0.003	0.050	mg/L	350.1
Carbon, Total Organic (TOC)	3.2		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	11.5		3.8	5.0	mg/L	410.4
Chloride	4.9		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	148			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	0.7	J	0.2	1.0	mg/L	9056A
Nitrogen, Total Kjeldahl (TKN)	0.62		0.10	0.20	mg/L	351.2
Phenolics, Total Recoverable	0.0016	J	0.0010	0.0050	mg/L	9066
Solids, Total Dissolved (TDS)	227		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	55.6		0.4	2.0	mg/L	9056A
Calcium, Total	42300		300	1000	ug/L	6010C
Iron, Total	4330		20	100	ug/L	6010C
Magnesium, Total	10300		30	1000	ug/L	6010C
Manganese, Total	129		4	10	ug/L	6010C
Potassium, Total	5700		200	2000	ug/L	6010C
Sodium, Total	3800		200	1000	ug/L	6010C

CLIENT ID: Goodliff-1119			Lab ID: R1911087-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	251		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon, Total Organic (TOC)	1.2		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	9.5		3.8	5.0	mg/L	410.4
Chloride	3.6		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	345			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	0.4	J	0.2	1.0	mg/L	9056A
Solids, Total Dissolved (TDS)	486		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	136		0.8	4.0	mg/L	9056A
Calcium, Total	89600		300	1000	ug/L	6010C
Iron, Total	110	B	20	100	ug/L	6010C
Magnesium, Total	29500		30	1000	ug/L	6010C
Manganese, Total	145		4	10	ug/L	6010C
Potassium, Total	2100		200	2000	ug/L	6010C
Sodium, Total	32500		200	1000	ug/L	6010C

SAMPLE DETECTION SUMMARY

CLIENT ID: Goodliff Trailer-1119			Lab ID: R1911087-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	186		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.217		0.003	0.050	mg/L	350.1
Biochemical Oxygen Demand (BOD)	2.1			2.0	mg/L	SM 5210 B-2001 (2011)
Carbon, Total Organic (TOC)	1.6		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	10.8		3.8	5.0	mg/L	410.4
Chloride	3.3		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	110			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	0.4	J	0.2	1.0	mg/L	9056A
Nitrogen, Total Kjeldahl (TKN)	0.38		0.10	0.20	mg/L	351.2
Solids, Total Dissolved (TDS)	198		9	10	mg/L	SM 2540 C-1997 (2011)
Cadmium, Total	0.6	J	0.4	5.0	ug/L	6010C
Calcium, Total	9600		300	1000	ug/L	6010C
Iron, Total	1860		20	100	ug/L	6010C
Magnesium, Total	20900		30	1000	ug/L	6010C
Manganese, Total	14		4	10	ug/L	6010C
Potassium, Total	3400		200	2000	ug/L	6010C
Sodium, Total	39800		200	1000	ug/L	6010C

CLIENT ID: Hutchesons-1119			Lab ID: R1911087-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	344		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.221		0.003	0.050	mg/L	350.1
Bromide	2.2		0.4	1.0	mg/L	9056A
Carbon, Total Organic (TOC)	0.6	J	0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	4.6	J	3.8	5.0	mg/L	410.4
Chloride	171		0.9	4.0	mg/L	9056A
Hardness, Total as CaCO3	74.3			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrogen, Total Kjeldahl (TKN)	0.28		0.10	0.20	mg/L	351.2
Solids, Total Dissolved (TDS)	711		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	23.1		0.4	2.0	mg/L	9056A
Calcium, Total	19100		300	1000	ug/L	6010C
Iron, Total	1410		20	100	ug/L	6010C
Magnesium, Total	6400		30	1000	ug/L	6010C
Manganese, Total	80		4	10	ug/L	6010C
Potassium, Total	1200	J	200	2000	ug/L	6010C
Sodium, Total	248000		2000	10000	ug/L	6010C

SAMPLE DETECTION SUMMARY

CLIENT ID: H. Gardon-1119			Lab ID: R1911087-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	237		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.004	J	0.003	0.050	mg/L	350.1
Chemical Oxygen Demand, Total	4.9	J	3.8	5.0	mg/L	410.4
Chloride	3.5		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	273			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrogen, Total Kjeldahl (TKN)	0.17	J	0.10	0.20	mg/L	351.2
Solids, Total Dissolved (TDS)	329		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	47.6		0.4	2.0	mg/L	9056A
Calcium, Total	76100		300	1000	ug/L	6010C
Magnesium, Total	20300		30	1000	ug/L	6010C
Potassium, Total	2700		200	2000	ug/L	6010C
Sodium, Total	10600		200	1000	ug/L	6010C

CLIENT ID: Shay Spring-1119			Lab ID: R1911087-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	121		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Chloride	85.1		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	204			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	0.4	J	0.2	1.0	mg/L	9056A
Nitrogen, Total Kjeldahl (TKN)	0.14	J	0.10	0.20	mg/L	351.2
Solids, Total Dissolved (TDS)	294		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	18.0		0.4	2.0	mg/L	9056A
Calcium, Total	57500		300	1000	ug/L	6010C
Iron, Total	20	BJ	20	100	ug/L	6010C
Magnesium, Total	14700		30	1000	ug/L	6010C
Potassium, Total	1700	J	200	2000	ug/L	6010C
Sodium, Total	23400		200	1000	ug/L	6010C

CLIENT ID: Shay House-1119			Lab ID: R1911087-009			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	127		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Chloride	85.9		0.5	2.0	mg/L	9056A
Nitrate as Nitrogen	0.4	J	0.2	1.0	mg/L	9056A
Solids, Total Dissolved (TDS)	330		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	18.2		0.4	2.0	mg/L	9056A
Iron, Total	20	BJ	20	100	ug/L	6010C
Magnesium, Total	30	J	30	1000	ug/L	6010C
Potassium, Total	300	J	200	2000	ug/L	6010C

SAMPLE DETECTION SUMMARY

CLIENT ID: Shay House-1119			Lab ID: R1911087-009			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sodium, Total	116000		200	1000	ug/L	6010C

CLIENT ID: Swineford-1119			Lab ID: R1911087-010			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	68.4		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon, Total Organic (TOC)	0.5	J	0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	6.8		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	87.1			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	2.0		0.2	1.0	mg/L	9056A
Nitrogen, Total Kjeldahl (TKN)	0.14	J	0.10	0.20	mg/L	351.2
Solids, Total Dissolved (TDS)	136		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	20.3		0.4	2.0	mg/L	9056A
Calcium, Total	24500		300	1000	ug/L	6010C
Iron, Total	30	BJ	20	100	ug/L	6010C
Magnesium, Total	6300		30	1000	ug/L	6010C
Manganese, Total	6	J	4	10	ug/L	6010C
Potassium, Total	5300		200	2000	ug/L	6010C
Sodium, Total	5900		200	1000	ug/L	6010C

CLIENT ID: Gordon Camp 2-1119			Lab ID: R1911087-011			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	270		1.8	2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.102		0.003	0.050	mg/L	350.1
Chloride	2.3		0.5	2.0	mg/L	9056A
Hardness, Total as CaCO3	302			6.62	mg/L	SM 2340 B-1997 (2011)
Solids, Total Dissolved (TDS)	372		9	10	mg/L	SM 2540 C-1997 (2011)
Sulfate	60.3		0.4	2.0	mg/L	9056A
Calcium, Total	78200		300	1000	ug/L	6010C
Iron, Total	2360		20	100	ug/L	6010C
Magnesium, Total	26000		30	1000	ug/L	6010C
Manganese, Total	157		4	10	ug/L	6010C
Potassium, Total	2100		200	2000	ug/L	6010C
Sodium, Total	22300		200	1000	ug/L	6010C

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Casella Waste Systems (Hampden ME) **Service Request:**R1911087
Project: Hyland Facility - Routine Parameters

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1911087-001	DB3-1119	11/11/2019	0925
R1911087-002	Goodliff-1119	11/11/2019	1000
R1911087-003	Goodliff Trailer-1119	11/11/2019	1045
R1911087-004	Hutchesons-1119	11/11/2019	1130
R1911087-005	MW40A-1119	11/11/2019	1220
R1911087-006	MW36A-1119	11/11/2019	1340
R1911087-007	H. Gardon-1119	11/11/2019	1400
R1911087-008	Shay Spring-1119	11/12/2019	1010
R1911087-009	Shay House-1119	11/12/2019	1030
R1911087-010	Swineford-1119	11/12/2019	1110
R1911087-011	Gordon Camp 2-1119	11/12/2019	1150

CHAIN of CUSTODY

Page 1 of 1

ALS-Environmental
1565 Jefferson Rd, Bldg 300, Suite 360
Rochester, NY 14623
585.288.5380

Client: Casella/On-Site
6653 Herdman Rd
Angelica NY. 14709

Project Manager: Russ Anderson/Jon Brandes

Project: Hyland - Routine Parameters

Telephone No.: 585-593-1824

Email: jonb@on-sitehs.com

Method of Shipment: UPS

Special Detection Limit/Reporting

PDF to Russ and On-Site, and EDD to On-Site.

Sample I.D.	Lab Sample No.	No. of Containers	Matrix: Soil	Water	Air	Other	Prsv.: Yes	No	Sampling Date	Sampling Time	BOD (NP)	Phenols & TOC (H2SO4)	Alkalinity (NP)	NH3, TKN, COD (H2SO4)	T-Metals, Hardness (Routine) (HNO3)	TDS, NO3, Br, Cl, SO4 (NP)
DB3-1119		6		X			X	X	11-11-19	0925	X	X	X	X	X	X
Goodliff-1119		6		X			X	X	11-11-19	1000	X	X	X	X	X	X
Goodliff Trailer-1119		6		X			X	X	11-11-19	1045	X	X	X	X	X	X
Hutchesons-1119		6		X			X	X	11-11-19	1130	X	X	X	X	X	X
MW40A-1119		1		X			X	X	11-11-19	1220	X					
MW36A-1119		1		X				X	11-11-19	1340	X					
H. Gordon-1119		6		X			X	X	11-11-19	1400	X	X	X	X	X	X

REMARKS
- minimal Sample
- minimal Sample

Sample Received Intact: Yes No

Temperature received: Ice No ice

Relinq. by sampler (Sign & Print Name)	Date	Time	Received by (Sign & Print Name)
Kevin Dye / Kevin Dye	11-11-19	1530	
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by laboratory: Date 11/12/19 Time 1230 1130

Lab Work No.

R1911087 5
Casella Waste - Hyland
Hyland Facility - Routine Parameters

Cooler Receipt and Preservation Check Form

R1911087 5
Casella Waste - Hyland
Hyland Facility - Routine Parameters

Project/Client Casella Folder Number

Cooler received on 11/12/19 by: AD/JE

COURIER: ALS (UPS) FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (Wet Ice) **Dry Ice** **Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 11/12/19 Time: 1131 ID: IR#7 (IR#10) From: (Temp Blank) Sample Bottle

Observed Temp (°C)	2.7	2.7					
Within 0-6°C?	(Y) N	(Y) N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: Rack by @ on 11/12/19 at 1134
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 11/12/19 Time: 1405 by: DW

9.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES)	NO
10.	Did all bottle labels and tags agree with custody papers?	(YES)	NO
11.	Were correct containers used for the tests indicated?	(YES)	NO
12.	Were 5035 vials acceptable (no extra labels, not leaking)?	YES	NO (N/A)
13.	Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized	Tedlar® Bags Inflated	(N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2	2300118	HNO_3	✓		1118081	10/20				
≤2	↓	H_2SO_4	✓		202739	↓				
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**						

Bottle lot numbers: 19-09-03, 060719-1BMC, 060319-2AAO, 80419-05

Explain all Discrepancies/ Other Comments:

Reid Outfall 01 TSS – cap off – sample lost
↑
sample time missing

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: _____
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

ALS-Environmental
1565 Jefferson Rd, Bldg 300, Suite 360
Rochester, NY 14623
585.288.5380

Client: Casella/On-Site
6653 Herdman Rd
Angelica NY. 14709

Project Manager: Russ Anderson/Jon Brandes

CHAIN of CUSTODY

Project: Hyland - Routine Parameters

Telephone No.: 585-593-1824

Email: jonb@on-sitehs.com

Method of Shipment: UPS

Special Detection Limit/Reporting

PDF to Russ and On-Site, and EDD to On-Site.

Sample I.D.	Lab Sample No.	No. of Containers	Matrix: Soil	Water	Air	Other	Prsv.: Yes	No	Sampling Date	Sampling Time	BOD (NP)	Phenols & TOC (H2SO4)	Alkalinity (NP)	NH3, TKN, COD (H2SO4)	T-Metals, Hardness (Routine) (HNO3)	TDS, NO3, Br, Cl, SO4 (NP)
Shay Spring - 1119		6		X			X	X	11-12-19	1010	X	X	X	X	X	X
Shay House - 1119		6		X			X	X	11-12-19	1030	X	X	X	X	X	X
Swingeford - 1119		6		X			X	X	11-12-19	1110	X	X	X	X	X	X
Gordon Camp 2 - 1119		6		X			X	X	11-12-19	1150	X	X	X	X	X	X

REMARKS

Sample Received Intact: Yes No

Temperature received: Ice No ice

Relinq. by sampler (Sign & Print Name)	Date	Time	Received by (Sign & Print Name)
Kevin Dye / Kevin Dye	11-12-19	1430	
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by laboratory: Date 11/13/19 Time 1240

Lab Work No.

R1911087 5
Casella Waste - Hyland
Hyland Facility - Routine Parameters

Cooler Receipt and Preservation Check Form

R1911087 5
Casella Waste - Hyland
Hyland Facility - Routine Parameters

Project/Client Casella Folder Number

Cooler received on 11/13/19 by: AD

COURIER: ALS (UPS) FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) N	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: ~~Wet Ice~~ **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 11/13/19 Time: 1246 ID: IR#7 ~~IR#10~~ From: ~~Temp Blank~~ Sample Bottle

Observed Temp (°C)	2.9						
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by C on 11/13/19 at 1250
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 11/13/19 Time: 1745 by: SW

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? ~~YES~~ NO
10. Did all bottle labels and tags agree with custody papers? ~~YES~~ NO
11. Were correct containers used for the tests indicated? ~~YES~~ NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO ~~N/A~~
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2	230018	HNO_3	✓		1118081	10/20				
≤2	↓	H_2SO_4	✓		202F39	↓				
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**						

Bottle lot numbers: 80819-07, 19-09-03, 093019-1BUC, 082619-ZAHC

Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: JL

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Casella Waste Systems (Hampden ME) **Service Request:** R1911087
Project: Hyland Facility - Routine Parameters/

Sample Name: DB3-1119 **Date Collected:** 11/11/19
Lab Code: R1911087-001 **Date Received:** 11/12/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		GNITAJOUPPI
351.2	NSMITH	GNITAJOUPPI
410.4		STALARICO
6010C	AKONZEL	KMCLAEN
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		KWONG
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: Goodliff-1119 **Date Collected:** 11/11/19
Lab Code: R1911087-002 **Date Received:** 11/12/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		GNITAJOUPPI
351.2	NSMITH	GNITAJOUPPI
410.4		STALARICO
6010C	AKONZEL	KMCLAEN
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		KWONG
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		SMEDBURY

Client: Casella Waste Systems (Hampden ME) **Service Request:** R1911087
Project: Hyland Facility - Routine Parameters/

Sample Name: Goodliff Trailer-1119 **Date Collected:** 11/11/19
Lab Code: R1911087-003 **Date Received:** 11/12/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		GNITAJOUPPI
351.2	NSMITH	GNITAJOUPPI
410.4		STALARICO
6010C	AKONZEL	KMCLAEN
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		KWONG
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: Hutchesons-1119 **Date Collected:** 11/11/19
Lab Code: R1911087-004 **Date Received:** 11/12/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		GNITAJOUPPI
351.2	NSMITH	GNITAJOUPPI
410.4		STALARICO
6010C	AKONZEL	KMCLAEN
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		KWONG
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		SMEDBURY

Client: Casella Waste Systems (Hampden ME) **Service Request:** R1911087
Project: Hyland Facility - Routine Parameters/

Sample Name: MW40A-1119 **Date Collected:** 11/11/19
Lab Code: R1911087-005 **Date Received:** 11/12/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
SM 5210 B-2001(2011)		NSMITH

Sample Name: MW36A-1119 **Date Collected:** 11/11/19
Lab Code: R1911087-006 **Date Received:** 11/12/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
SM 5210 B-2001(2011)		NSMITH

Sample Name: H. Gardon-1119 **Date Collected:** 11/11/19
Lab Code: R1911087-007 **Date Received:** 11/12/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		GNITAJOUPPI
351.2	NSMITH	GNITAJOUPPI
410.4		STALARICO
6010C	AKONZEL	KMCLAEN
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		KWONG
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: Shay Spring-1119 **Date Collected:** 11/12/19
Lab Code: R1911087-008 **Date Received:** 11/13/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		GNITAJOUPPI

Client: Casella Waste Systems (Hampden ME) **Service Request:** R1911087
Project: Hyland Facility - Routine Parameters/

Sample Name: Shay Spring-1119 **Date Collected:** 11/12/19
Lab Code: R1911087-008 **Date Received:** 11/13/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
351.2	NSMITH	CWOODS
410.4		SMEDBURY
6010C	AKONZEL	KMCLAEN
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		STALARICO
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		KMENGS
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: Shay House-1119 **Date Collected:** 11/12/19
Lab Code: R1911087-009 **Date Received:** 11/13/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		GNITAJOUPPI
351.2	NSMITH	CWOODS
410.4		SMEDBURY
6010C	AKONZEL	KMCLAEN
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		STALARICO
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		KMENGS
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: Swineford-1119 **Date Collected:** 11/12/19
Lab Code: R1911087-010 **Date Received:** 11/13/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		GNITAJOUPPI

Client: Casella Waste Systems (Hampden ME) **Service Request:** R1911087
Project: Hyland Facility - Routine Parameters/

Sample Name: Swineford-1119 **Date Collected:** 11/12/19
Lab Code: R1911087-010 **Date Received:** 11/13/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
351.2	NSMITH	CWOODS
410.4		SMEDBURY
6010C	AKONZEL	KMCLAEN
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		STALARICO
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		KMENGS
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: Gordon Camp 2-1119 **Date Collected:** 11/12/19
Lab Code: R1911087-011 **Date Received:** 11/13/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
350.1		GNITAJOUPPI
351.2	NSMITH	CWOODS
410.4		SMEDBURY
6010C	AKONZEL	KMCLAEN
9056A		KWONG
9066		BBOWE
SM 2320 B-1997(2011)		STALARICO
SM 2540 C-1997(2011)		KAWONG
SM 5210 B-2001(2011)		KMENGS
SM 5310 C-2000(2011)		SMEDBURY

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Sample Results

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Metals

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www.alsglobal.com

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/11/19 09:25
Sample Matrix:	Water	**Date Received:**	11/12/19 11:30
Sample Name:	DB3-1119	**Basis:**	NA
Lab Code:	R1911087-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/15/19 20:49	11/14/19	
Calcium, Total	6010C	**42300**	ug/L	1000	300	1	11/15/19 20:49	11/14/19	
Iron, Total	6010C	**4330**	ug/L	100	20	1	11/15/19 20:49	11/14/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/15/19 20:49	11/14/19	
Magnesium, Total	6010C	**10300**	ug/L	1000	30	1	11/15/19 20:49	11/14/19	
Manganese, Total	6010C	**129**	ug/L	10	4	1	11/15/19 20:49	11/14/19	
Potassium, Total	6010C	**5700**	ug/L	2000	200	1	11/15/19 20:49	11/14/19	
Sodium, Total	6010C	**3800**	ug/L	1000	200	1	11/15/19 20:49	11/14/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/11/19 10:00
Sample Matrix:	Water	**Date Received:**	11/12/19 11:30
Sample Name:	Goodliff-1119	**Basis:**	NA
Lab Code:	R1911087-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0	U	ug/L	5.0	0.4	1	11/15/19 20:52	11/14/19	
Calcium, Total	6010C	**89600**		ug/L	1000	300	1	11/15/19 20:52	11/14/19	
Iron, Total	6010C	**110**	**B**	ug/L	100	20	1	11/15/19 20:52	11/14/19	
Lead, Total	6010C	50	U	ug/L	50	3	1	11/15/19 20:52	11/14/19	
Magnesium, Total	6010C	**29500**		ug/L	1000	30	1	11/15/19 20:52	11/14/19	
Manganese, Total	6010C	**145**		ug/L	10	4	1	11/15/19 20:52	11/14/19	
Potassium, Total	6010C	**2100**		ug/L	2000	200	1	11/15/19 20:52	11/14/19	
Sodium, Total	6010C	**32500**		ug/L	1000	200	1	11/15/19 20:52	11/14/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/11/19 10:45
Sample Matrix:	Water	**Date Received:**	11/12/19 11:30
Sample Name:	Goodliff Trailer-1119	**Basis:**	NA
Lab Code:	R1911087-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Q	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	**0.6**	**J**	ug/L	5.0	0.4	1	11/15/19 20:55	11/14/19	
Calcium, Total	6010C	**9600**		ug/L	1000	300	1	11/15/19 20:55	11/14/19	
Iron, Total	6010C	**1860**		ug/L	100	20	1	11/15/19 20:55	11/14/19	
Lead, Total	6010C	50	U	ug/L	50	3	1	11/15/19 20:55	11/14/19	
Magnesium, Total	6010C	**20900**		ug/L	1000	30	1	11/15/19 20:55	11/14/19	
Manganese, Total	6010C	**14**		ug/L	10	4	1	11/15/19 20:55	11/14/19	
Potassium, Total	6010C	**3400**		ug/L	2000	200	1	11/15/19 20:55	11/14/19	
Sodium, Total	6010C	**39800**		ug/L	1000	200	1	11/15/19 20:55	11/14/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/11/19 11:30
Sample Matrix:	Water	**Date Received:**	11/12/19 11:30
Sample Name:	Hutchesons-1119	**Basis:**	NA
Lab Code:	R1911087-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Q	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0	U	ug/L	5.0	0.4	1	11/15/19 21:05	11/14/19	
Calcium, Total	6010C	**19100**		ug/L	1000	300	1	11/15/19 21:05	11/14/19	
Iron, Total	6010C	**1410**		ug/L	100	20	1	11/15/19 21:05	11/14/19	
Lead, Total	6010C	50	U	ug/L	50	3	1	11/15/19 21:05	11/14/19	
Magnesium, Total	6010C	**6400**		ug/L	1000	30	1	11/15/19 21:05	11/14/19	
Manganese, Total	6010C	**80**		ug/L	10	4	1	11/15/19 21:05	11/14/19	
Potassium, Total	6010C	**1200**	**J**	ug/L	2000	200	1	11/15/19 21:05	11/14/19	
Sodium, Total	6010C	**248000**		ug/L	10000	2000	10	11/18/19 18:25	11/14/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/11/19 14:00
Sample Matrix:	Water	**Date Received:**	11/12/19 11:30
Sample Name:	H. Gardon-1119	**Basis:**	NA
Lab Code:	R1911087-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0	U	ug/L	5.0	0.4	1	11/15/19 21:08	11/14/19	
Calcium, Total	6010C	**76100**		ug/L	1000	300	1	11/15/19 21:08	11/14/19	
Iron, Total	6010C	100	U	ug/L	100	20	1	11/15/19 21:08	11/14/19	
Lead, Total	6010C	50	U	ug/L	50	3	1	11/15/19 21:08	11/14/19	
Magnesium, Total	6010C	**20300**		ug/L	1000	30	1	11/15/19 21:08	11/14/19	
Manganese, Total	6010C	10	U	ug/L	10	4	1	11/15/19 21:08	11/14/19	
Potassium, Total	6010C	**2700**		ug/L	2000	200	1	11/15/19 21:08	11/14/19	
Sodium, Total	6010C	**10600**		ug/L	1000	200	1	11/15/19 21:08	11/14/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/12/19 10:10
Sample Matrix:	Water	**Date Received:**	11/13/19 12:40
Sample Name:	Shay Spring-1119	**Basis:**	NA
Lab Code:	R1911087-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0	U	ug/L	5.0	0.4	1	11/15/19 21:12	11/14/19	
Calcium, Total	6010C	**57500**		ug/L	1000	300	1	11/15/19 21:12	11/14/19	
Iron, Total	6010C	**20**	**BJ**	ug/L	100	20	1	11/15/19 21:12	11/14/19	
Lead, Total	6010C	50	U	ug/L	50	3	1	11/15/19 21:12	11/14/19	
Magnesium, Total	6010C	**14700**		ug/L	1000	30	1	11/15/19 21:12	11/14/19	
Manganese, Total	6010C	10	U	ug/L	10	4	1	11/15/19 21:12	11/14/19	
Potassium, Total	6010C	**1700**	**J**	ug/L	2000	200	1	11/15/19 21:12	11/14/19	
Sodium, Total	6010C	**23400**		ug/L	1000	200	1	11/15/19 21:12	11/14/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/12/19 10:30
Sample Matrix:	Water	**Date Received:**	11/13/19 12:40
Sample Name:	Shay House-1119	**Basis:**	NA
Lab Code:	R1911087-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0	U	ug/L	5.0	0.4	1	11/15/19 21:15	11/14/19	
Calcium, Total	6010C	1000	U	ug/L	1000	300	1	11/15/19 21:15	11/14/19	
Iron, Total	6010C	**20**	**BJ**	ug/L	100	20	1	11/15/19 21:15	11/14/19	
Lead, Total	6010C	50	U	ug/L	50	3	1	11/15/19 21:15	11/14/19	
Magnesium, Total	6010C	**30**	**J**	ug/L	1000	30	1	11/15/19 21:15	11/14/19	
Manganese, Total	6010C	10	U	ug/L	10	4	1	11/15/19 21:15	11/14/19	
Potassium, Total	6010C	**300**	**J**	ug/L	2000	200	1	11/15/19 21:15	11/14/19	
Sodium, Total	6010C	**116000**		ug/L	1000	200	1	11/15/19 21:15	11/14/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/12/19 11:10
Sample Matrix:	Water	**Date Received:**	11/13/19 12:40
Sample Name:	Swineford-1119	**Basis:**	NA
Lab Code:	R1911087-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0	U	ug/L	5.0	0.4	1	11/15/19 21:18	11/14/19	
Calcium, Total	6010C	**24500**		ug/L	1000	300	1	11/15/19 21:18	11/14/19	
Iron, Total	6010C	**30**	**BJ**	ug/L	100	20	1	11/15/19 21:18	11/14/19	
Lead, Total	6010C	50	U	ug/L	50	3	1	11/15/19 21:18	11/14/19	
Magnesium, Total	6010C	**6300**		ug/L	1000	30	1	11/15/19 21:18	11/14/19	
Manganese, Total	6010C	**6**	**J**	ug/L	10	4	1	11/15/19 21:18	11/14/19	
Potassium, Total	6010C	**5300**		ug/L	2000	200	1	11/15/19 21:18	11/14/19	
Sodium, Total	6010C	**5900**		ug/L	1000	200	1	11/15/19 21:18	11/14/19	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/12/19 11:50
Sample Matrix:	Water	**Date Received:**	11/13/19 12:40
Sample Name:	Gordon Camp 2-1119	**Basis:**	NA
Lab Code:	R1911087-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/15/19 21:21	11/14/19	
Calcium, Total	6010C	**78200**	ug/L	1000	300	1	11/15/19 21:21	11/14/19	
Iron, Total	6010C	**2360**	ug/L	100	20	1	11/15/19 21:21	11/14/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/15/19 21:21	11/14/19	
Magnesium, Total	6010C	**26000**	ug/L	1000	30	1	11/15/19 21:21	11/14/19	
Manganese, Total	6010C	**157**	ug/L	10	4	1	11/15/19 21:21	11/14/19	
Potassium, Total	6010C	**2100**	ug/L	2000	200	1	11/15/19 21:21	11/14/19	
Sodium, Total	6010C	**22300**	ug/L	1000	200	1	11/15/19 21:21	11/14/19	

General Chemistry

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/11/19 09:25
Sample Matrix:	Water	**Date Received:**	11/12/19 11:30
Sample Name:	DB3-1119	**Basis:**	NA
Lab Code:	R1911087-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Q	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**92.0**		mg/L	2.0	1.8	1	11/13/19 03:05	NA	
Ammonia as Nitrogen, undistilled	350.1	**0.107**		mg/L	0.050	0.003	1	11/13/19 20:28	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/13/19 09:13	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/12/19 13:37	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**3.2**		mg/L	1.0	0.5	1	11/16/19 01:21	NA	
Chemical Oxygen Demand, Total	410.4	**11.5**		mg/L	5.0	3.8	1	11/13/19 14:00	NA	
Chloride	9056A	**4.9**		mg/L	2.0	0.5	10	11/12/19 13:37	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**148**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	**0.7**	**J**	mg/L	1.0	0.2	10	11/12/19 13:37	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.62**		mg/L	0.20	0.10	1	11/13/19 17:34	11/12/19	
Phenolics, Total Recoverable	9066	**0.0016**	**J**	mg/L	0.0050	0.0010	1	11/19/19 00:34	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**227**		mg/L	10	9	1	11/14/19 09:15	NA	
Sulfate	9056A	**55.6**		mg/L	2.0	0.4	10	11/12/19 13:37	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/11/19 10:00
Sample Matrix:	Water	**Date Received:**	11/12/19 11:30
Sample Name:	Goodliff-1119	**Basis:**	NA
Lab Code:	R1911087-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**251**		mg/L	2.0	1.8	1	11/13/19 03:11	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/13/19 20:29	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/13/19 09:14	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/12/19 13:43	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**1.2**		mg/L	1.0	0.5	1	11/16/19 01:42	NA	
Chemical Oxygen Demand, Total	410.4	**9.5**		mg/L	5.0	3.8	1	11/13/19 14:00	NA	
Chloride	9056A	**3.6**		mg/L	2.0	0.5	10	11/12/19 13:43	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**345**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	**0.4**	**J**	mg/L	1.0	0.2	10	11/12/19 13:43	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20	U	mg/L	0.20	0.10	1	11/13/19 17:34	11/12/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/19/19 00:39	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**486**		mg/L	10	9	1	11/14/19 09:15	NA	
Sulfate	9056A	**136**		mg/L	4.0	0.8	20	11/12/19 16:02	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/11/19 10:45
Sample Matrix:	Water	**Date Received:**	11/12/19 11:30
Sample Name:	Goodliff Trailer-1119	**Basis:**	NA
Lab Code:	R1911087-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**186**		mg/L	2.0	1.8	1	11/13/19 03:17	NA	
Ammonia as Nitrogen, undistilled	350.1	**0.217**		mg/L	0.050	0.003	1	11/13/19 20:30	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	**2.1**		mg/L	2.0	-	1	11/13/19 09:06	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/12/19 13:49	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**1.6**		mg/L	1.0	0.5	1	11/16/19 03:26	NA	
Chemical Oxygen Demand, Total	410.4	**10.8**		mg/L	5.0	3.8	1	11/13/19 14:00	NA	
Chloride	9056A	**3.3**		mg/L	2.0	0.5	10	11/12/19 13:49	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**110**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	**0.4**	**J**	mg/L	1.0	0.2	10	11/12/19 13:49	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.38**		mg/L	0.20	0.10	1	11/13/19 17:35	11/12/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/19/19 00:43	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**198**		mg/L	10	9	1	11/14/19 09:15	NA	
Sulfate	9056A	2.0	U	mg/L	2.0	0.4	10	11/12/19 13:49	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/11/19 11:30
Sample Matrix:	Water	**Date Received:**	11/12/19 11:30
Sample Name:	Hutchesons-1119	**Basis:**	NA
Lab Code:	R1911087-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Q	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**344**		mg/L	2.0	1.8	1	11/13/19 03:23	NA	
Ammonia as Nitrogen, undistilled	350.1	**0.221**		mg/L	0.050	0.003	1	11/13/19 20:31	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/13/19 09:12	NA	
Bromide	9056A	**2.2**		mg/L	1.0	0.4	10	11/12/19 14:07	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**0.6**	**J**	mg/L	1.0	0.5	1	11/16/19 03:47	NA	
Chemical Oxygen Demand, Total	410.4	**4.6**	**J**	mg/L	5.0	3.8	1	11/13/19 14:00	NA	
Chloride	9056A	**171**		mg/L	4.0	0.9	20	11/12/19 16:08	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**74.3**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	0.2	10	11/12/19 14:07	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.28**		mg/L	0.20	0.10	1	11/13/19 17:39	11/12/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/19/19 00:47	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**711**		mg/L	10	9	1	11/14/19 09:15	NA	
Sulfate	9056A	**23.1**		mg/L	2.0	0.4	10	11/12/19 14:07	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/11/19 12:20
Sample Matrix:	Water	**Date Received:**	11/12/19 11:30
Sample Name:	MW40A-1119	**Basis:**	NA
Lab Code:	R1911087-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0 U	mg/L	2.0	1	11/13/19 09:04	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/11/19 13:40
Sample Matrix:	Water	**Date Received:**	11/12/19 11:30
Sample Name:	MW36A-1119	**Basis:**	NA
Lab Code:	R1911087-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0 U	mg/L	2.0	1	11/13/19 09:03	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/11/19 14:00
Sample Matrix:	Water	**Date Received:**	11/12/19 11:30
Sample Name:	H. Gardon-1119	**Basis:**	NA
Lab Code:	R1911087-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Q	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**237**		mg/L	2.0	1.8	1	11/13/19 03:39	NA	
Ammonia as Nitrogen, undistilled	350.1	**0.004**	**J**	mg/L	0.050	0.003	1	11/13/19 20:33	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/13/19 09:10	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/12/19 14:15	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	11/16/19 04:08	NA	
Chemical Oxygen Demand, Total	410.4	**4.9**	**J**	mg/L	5.0	3.8	1	11/13/19 14:00	NA	
Chloride	9056A	**3.5**		mg/L	2.0	0.5	10	11/12/19 14:15	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**273**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	0.2	10	11/12/19 14:15	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.17**	**J**	mg/L	0.20	0.10	1	11/13/19 17:40	11/12/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/19/19 00:51	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**329**		mg/L	10	9	1	11/14/19 09:15	NA	
Sulfate	9056A	**47.6**		mg/L	2.0	0.4	10	11/12/19 14:15	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/12/19 10:10
Sample Matrix:	Water	**Date Received:**	11/13/19 12:40
Sample Name:	Shay Spring-1119	**Basis:**	NA
Lab Code:	R1911087-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**121**		mg/L	2.0	1.8	1	11/15/19 14:11	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/15/19 22:10	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/14/19 06:13	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/13/19 18:14	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	11/16/19 04:50	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/16/19 14:20	NA	
Chloride	9056A	**85.1**		mg/L	2.0	0.5	10	11/13/19 18:14	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**204**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	**0.4**	**J**	mg/L	1.0	0.2	10	11/13/19 18:14	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.14**	**J**	mg/L	0.20	0.10	1	11/15/19 15:30	11/14/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/19/19 00:55	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**294**		mg/L	10	9	1	11/14/19 09:15	NA	
Sulfate	9056A	**18.0**		mg/L	2.0	0.4	10	11/13/19 18:14	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/12/19 10:30
Sample Matrix:	Water	**Date Received:**	11/13/19 12:40
Sample Name:	Shay House-1119	**Basis:**	NA
Lab Code:	R1911087-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**127**		mg/L	2.0	1.8	1	11/15/19 14:19	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/15/19 22:12	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/14/19 06:05	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/13/19 18:32	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	11/16/19 05:10	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/16/19 14:20	NA	
Chloride	9056A	**85.9**		mg/L	2.0	0.5	10	11/13/19 18:32	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	6.62	U	mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	**0.4**	**J**	mg/L	1.0	0.2	10	11/13/19 18:32	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20	U	mg/L	0.20	0.10	1	11/15/19 15:31	11/14/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/19/19 00:59	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**330**		mg/L	10	9	1	11/14/19 09:15	NA	
Sulfate	9056A	**18.2**		mg/L	2.0	0.4	10	11/13/19 18:32	NA	

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/12/19 11:10
Sample Matrix:	Water	**Date Received:**	11/13/19 12:40
Sample Name:	Swineford-1119	**Basis:**	NA
Lab Code:	R1911087-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**68.4**		mg/L	2.0	1.8	1	11/15/19 14:37	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/15/19 22:13	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/14/19 06:05	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/13/19 18:38	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**0.5**	**J**	mg/L	1.0	0.5	1	11/16/19 05:31	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/16/19 14:20	NA	
Chloride	9056A	**6.8**		mg/L	2.0	0.5	10	11/13/19 18:38	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**87.1**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	**2.0**		mg/L	1.0	0.2	10	11/13/19 18:38	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.14**	**J**	mg/L	0.20	0.10	1	11/15/19 15:32	11/14/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/19/19 01:03	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**136**		mg/L	10	9	1	11/14/19 09:15	NA	
Sulfate	9056A	**20.3**		mg/L	2.0	0.4	10	11/13/19 18:38	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/12/19 11:50
Sample Matrix:	Water	**Date Received:**	11/13/19 12:40
Sample Name:	Gordon Camp 2-1119	**Basis:**	NA
Lab Code:	R1911087-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**270**		mg/L	2.0	1.8	1	11/15/19 14:44	NA	
Ammonia as Nitrogen, undistilled	350.1	**0.102**		mg/L	0.050	0.003	1	11/15/19 22:14	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/14/19 06:04	NA	
Bromide	9056A	1.0	U	mg/L	1.0	0.4	10	11/13/19 18:56	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	11/16/19 05:52	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/16/19 14:20	NA	
Chloride	9056A	**2.3**		mg/L	2.0	0.5	10	11/13/19 18:56	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**302**		mg/L	6.62	-	1	NA	NA	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	0.2	10	11/13/19 18:56	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20	U	mg/L	0.20	0.10	1	11/15/19 15:32	11/14/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.0010	1	11/19/19 01:22	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**372**		mg/L	10	9	1	11/14/19 09:15	NA	
Sulfate	9056A	**60.3**		mg/L	2.0	0.4	10	11/13/19 18:56	NA	

QC Summary Forms

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Metals

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1911087-MB		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	11/15/19 19:47	11/14/19	
Calcium, Total	6010C	1000 U	ug/L	1000	300	1	11/15/19 19:47	11/14/19	
Iron, Total	6010C	**80 J**	ug/L	100	20	1	11/15/19 19:47	11/14/19	
Lead, Total	6010C	50 U	ug/L	50	3	1	11/15/19 19:47	11/14/19	
Magnesium, Total	6010C	1000 U	ug/L	1000	30	1	11/15/19 19:47	11/14/19	
Manganese, Total	6010C	10 U	ug/L	10	4	1	11/15/19 19:47	11/14/19	
Potassium, Total	6010C	2000 U	ug/L	2000	200	1	11/15/19 19:47	11/14/19	
Sodium, Total	6010C	1000 U	ug/L	1000	200	1	11/15/19 19:47	11/14/19	

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request: R1911087
Date Analyzed: 11/15/19

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R1911087-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cadmium, Total	6010C	50.2	50.0	100	80-120
Calcium, Total	6010C	1740	2000	87	80-120
Iron, Total	6010C	1000	1000	100	80-120
Lead, Total	6010C	499	500	100	80-120
Magnesium, Total	6010C	1950	2000	97	80-120
Manganese, Total	6010C	500	500	100	80-120
Potassium, Total	6010C	19200	20000	96	80-120
Sodium, Total	6010C	20100	20000	101	80-120

General Chemistry

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Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1911087-MB1		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	U	mg/L	2.0	1.8	1	11/13/19 01:12	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/13/19 19:57	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/13/19 18:00	NA	
Bromide	9056A	0.10	U	mg/L	0.10	0.04	1	11/12/19 11:38	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	11/15/19 18:02	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/13/19 14:00	NA	
Chloride	9056A	0.20	U	mg/L	0.20	0.05	1	11/12/19 11:38	NA	
Nitrate as Nitrogen	9056A	0.10	U	mg/L	0.10	0.02	1	11/12/19 11:38	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20	U	mg/L	0.20	0.1	1	11/13/19 17:24	11/12/19	
Phenolics, Total Recoverable	9066	0.0050	U	mg/L	0.0050	0.001	1	11/18/19 23:18	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	10	U	mg/L	10	9	1	11/14/19 09:15	NA	
Sulfate	9056A	0.20	U	mg/L	0.20	0.04	1	11/12/19 11:38	NA	

Analytical Report

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1911087-MB2		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	U	mg/L	2.0	1.8	1	11/15/19 13:04	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	0.003	1	11/15/19 21:54	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	U	mg/L	2.0	-	1	11/14/19 13:24	NA	
Bromide	9056A	0.10	U	mg/L	0.10	0.04	1	11/13/19 16:03	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	11/16/19 02:23	NA	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	11/16/19 14:20	NA	
Chloride	9056A	0.20	U	mg/L	0.20	0.05	1	11/13/19 16:03	NA	
Nitrate as Nitrogen	9056A	0.10	U	mg/L	0.10	0.02	1	11/13/19 16:03	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20	U	mg/L	0.20	0.1	1	11/15/19 17:18	11/14/19	
Sulfate	9056A	0.20	U	mg/L	0.20	0.04	1	11/13/19 16:03	NA	

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project:	Hyland Facility - Routine Parameters	**Date Collected:**	11/11/19
Sample Matrix:	Water	**Date Received:**	11/12/19
		Date Analyzed:	11/16/19

Duplicate Matrix Spike Summary
Carbon, Total Organic (TOC)

Sample Name:	Goodliff-1119	**Units:**	mg/L
Lab Code:	R1911087-002	**Basis:**	NA
Analysis Method:	SM 5310 C-2000(2011)		

		Matrix Spike R1911087-002MS			**Duplicate Matrix Spike** R1911087-002DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Carbon, Total Organic (TOC)	1.2	11.3	10.0	101	12.0	10.0	108	48-135	6	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request:R1911087
Date Collected:11/12/19
Date Received:11/13/19
Date Analyzed:11/13/19 - 11/16/19

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: Swineford-1119
Lab Code: R1911087-010

Units:mg/L
Basis:NA

			Matrix Spike			Duplicate Matrix Spike					
			R1911087-010MS			R1911087-010DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Bromide	9056A	1.0 U	9.8	10.0	98	9.9	10.0	99	80-120	1	15
Chloride	9056A	6.8	27.0	20.0	101	27.0	20.0	101	80-120	<1	15
Chemical Oxygen Demand, Total	410.4	5.0 U	25.4	25.0	102	25.1	25.0	100	90-110	1	20
Sulfate	9056A	20.3	40.3	20.0	100	39.7	20.0	97	80-120	1	15
Nitrate as Nitrogen	9056A	2.0	12.1	10.0	100	12.2	10.0	101	80-120	<1	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Casella Waste Systems (Hampden ME)	**Service Request:**	R1911087
Project	Hyland Facility - Routine Parameters	**Date Collected:**	11/11/19
Sample Matrix:	Water	**Date Received:**	11/12/19
		Date Analyzed:	11/13/19

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	H. Gardon-1119	**Units:**	mg/L
Lab Code:	R1911087-007	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample R1911087-007DUP Result	Average	RPD	RPD Limit
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	1.8	237	237	237	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request: R1911087
Date Analyzed: 11/12/19 - 11/18/19

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1911087-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	18.8	20.0	94	80-120
Ammonia as Nitrogen, undistilled	350.1	0.254	0.250	102	90-110
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	178	198	90	85-115
Bromide	9056A	1.03	1.00	103	80-120
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.2	10.0	102	80-121
Chemical Oxygen Demand, Total	410.4	54.9	50.0	110	90-110
Chloride	9056A	2.07	2.00	103	80-120
Nitrate as Nitrogen	9056A	1.03	1.00	103	80-120
Nitrogen, Total Kjeldahl (TKN)	351.2	2.48	2.50	99	90-110
Phenolics, Total Recoverable	9066	0.0390	0.0400	97	85-115
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	920	914	101	90-110
Sulfate	9056A	2.01	2.00	101	80-120

Client: Casella Waste Systems (Hampden ME)
Project: Hyland Facility - Routine Parameters
Sample Matrix: Water

Service Request: R1911087
Date Analyzed: 11/13/19 - 11/16/19

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1911087-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	18.8	20.0	94	80-120
Ammonia as Nitrogen, undistilled	350.1	0.239	0.250	95	90-110
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	172	198	87	85-115
Bromide	9056A	1.01	1.00	101	80-120
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.4	10.0	104	80-121
Chemical Oxygen Demand, Total	410.4	48.7	50.0	97	90-110
Chloride	9056A	2.01	2.00	101	80-120
Nitrate as Nitrogen	9056A	1.01	1.00	101	80-120
Nitrogen, Total Kjeldahl (TKN)	351.2	2.33	2.50	93	90-110
Sulfate	9056A	1.98	2.00	99	80-120

ATTACHMENT 3 – WASTE ORIGIN

Waste Origin for 4th Quarter 2019

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Origin: All

Hyland Facility Associates

Origin/Material Report

Transactions from 10/01/2019 through 10/31/2019
Inbound Tickets Only
Third Party and Intercompany Customers
Recycle and Disposal Material
Material Summary

	Bill Units	Cubic Yards	Tons	Est Tons
ALL - ALLEGANY / NY				
CO - CLEAN OUT SERVICE *1 ticket and 1 transaction*	1.00 U	0.00	0.00	0.00
6534 - I/C PLANT TRASH 6534 *5 tickets and 5 transactions*	12.62 T	0.00	12.62	0.00
6535 - I/C PLANT TRASH 6535 *2 tickets and 2 transactions*	6.19 T	0.00	6.19	0.00
6645 - MIXED PLANT TRASH 6645 *9 tickets and 9 transactions*	55.89 T	0.00	55.89	0.00
6646 - MIXED PLANT TRASH 6646 *1 ticket and 1 transaction*	5.62 T	0.00	5.62	0.00
BAFA - BAGGED FRIABLE ASBESTOS *5 tickets and 5 transactions*	23.11 T	0.00	23.11	0.00
BDCS - BUD CONTAMINATED SOIL *6 tickets and 6 transactions*	140.02 T	0.00	140.02	0.00
CD - CONSTRUCTION DEBRIS *58 tickets and 58 transactions*	169.90 T	0.00	169.90	0.00
ICAW - I/C Allegany Cty Waste *6 tickets and 6 transactions*	19.12 T	0.00	19.12	0.00

ICCD - I-C CONSTUCTION DEBRIS *9 tickets and 9 transactions*	32.18 T	0.00	32.18	0.00
ICMS - I-C MSW *1 ticket and 1 transaction*	19.28 T	0.00	19.28	0.00
ICMX - I-C MSW & CD MIXED TRASH *1 ticket and 1 transaction*	0.81 T	0.00	0.81	0.00
ICSD - I/C SAPUTO DAIRY TRASH *13 tickets and 13 transactions*	67.86 T	0.00	67.86	0.00
MS - MSW *118 tickets and 118 transactions*	1,060.91 T	0.00	1,060.91	0.00
MSSL - INDUSTRIAL SOLIDIFICATION *3 tickets and 3 transactions*	23.63 T	0.00	23.63	0.00
MX - MSW & MIXED TRASH *4 tickets and 4 transactions*	2.79 T	0.00	2.79	0.00
VWSL - 331 WWTP SLUDGE *4 tickets and 4 transactions*	55.42 T	0.00	55.42	0.00
ALL - ALLEGANY / NY *245 tickets and 246 transactions*		0.00	1,695.35	0.00
BRON - BRONX / NY				
CDAD - CONSTRUCTION DEBRIS (BUD ADC) *24 tickets and 24 transactions*	848.36 T	0.00	848.36	0.00
DO - DIG OUT SERVICE *1 ticket and 1 transaction*	1.00 U	0.00	0.00	0.00
MBTI - MBI TIPPER CHARGE *20 tickets and 20 transactions*	20.00 U	0.00	0.00	0.00
BRON - BRONX / NY *24 tickets and 45 transactions*		0.00	848.36	0.00
BUR - BURLINGTON/NJ				
MSSL - INDUSTRIAL SOLIDIFICATION *1 ticket and 1 transaction*	20.34 T	0.00	20.34	0.00
BUR - BURLINGTON/NJ *1 ticket and 1 transaction*		0.00	20.34	0.00

CAT - CATTARAUGUS / NY				
4867 - I/C SAWDUST 4867 *1 ticket and 1 transaction*	5.15 T	0.00	5.15	0.00
6090 - I/C PLANT TRASH 6090 *1 ticket and 1 transaction*	3.87 T	0.00	3.87	0.00
CD - CONSTRUCTION DEBRIS *5 tickets and 5 transactions*	20.48 T	0.00	20.48	0.00
ICBA - I/C BAGGED FRIABLE ASBESTOS *5 tickets and 5 transactions*	34.94 T	0.00	34.94	0.00
ICCD - I-C CONSTUCTION DEBRIS *1 ticket and 1 transaction*	2.63 T	0.00	2.63	0.00
ICES - 189 INDUSTRIAL / PLANT TRASH *5 tickets and 5 transactions*	53.37 T	0.00	53.37	0.00
ICHA - 188 INDUSTRIAL / PLANT TRASH *4 tickets and 4 transactions*	10.71 T	0.00	10.71	0.00
ICIN - I-C INDUSTRIAL *4 tickets and 4 transactions*	43.86 T	0.00	43.86	0.00
ICLE - 1548 I/C TOBACCO *4 tickets and 4 transactions*	14.07 T	0.00	14.07	0.00
CAT - CATTARAUGUS / NY				
ICOS - 582 OLEAN WWTP SLUDGE *13 tickets and 13 transactions*	179.36 T	0.00	179.36	0.00
ICTR - I/C Mixed Waste TT *36 tickets and 36 transactions*	1,011.15 T	0.00	1,011.15	0.00
MBTP - I/C MBI TIPPER *27 tickets and 27 transactions*	27.00 U	0.00	0.00	0.00
CAT - CATTARAUGUS / NY *79 tickets and 106 transactions*		0.00	1,379.59	0.00
CHA - CHAUTAUQUA / (NY)				
ICTR - I/C Mixed Waste TT *2 tickets and 2 transactions*	21.46 T	0.00	21.46	0.00
MBTP - I/C MBI TIPPER *2 tickets and 2 transactions*	2.00 U	0.00	0.00	0.00
CHA - CHAUTAUQUA / (NY) *2 tickets and 4 transactions*		0.00	21.46	0.00

CHE - CHEMUNG / NY				
ICMS - I-C MSW *82 tickets and 82 transactions*	3,084.90 T	0.00	3,084.90	0.00
CHE - CHEMUNG / NY *82 tickets and 82 transactions*		0.00	3,084.90	0.00
CHI - CHITTENDEN / VT				
4155 - NON-HAZ LIQUID 4155 *6 tickets and 6 transactions*	92.48 T	0.00	92.48	0.00
4217 - NON-HAZ SOLIDS 4217 *6 tickets and 6 transactions*	18.81 T	0.00	18.81	0.00
CHI - CHITTENDEN / VT *12 tickets and 12 transactions*		0.00	111.29	0.00
CHNH - CHESHIRE/NH				
CHNH - CHESHIRE/NH				
4286 - I/C NON HAZ LIQUIDS 4286 *1 ticket and 1 transaction*	20.70 T	0.00	20.70	0.00
CHNH - CHESHIRE/NH *1 ticket and 1 transaction*		0.00	20.70	0.00
DEL - DELAWARE / NY				
CO - CLEAN OUT SERVICE *2 tickets and 2 transactions*	2.00 U	0.00	0.00	0.00
MSSL - INDUSTRIAL SOLIDIFICATION *3 tickets and 3 transactions*	22.20 T	0.00	22.20	0.00
DEL - DELAWARE / NY *3 tickets and 5 transactions*		0.00	22.20	0.00
DUT - DUTCHESS / NY				
ICSL - I/C SLUDGE *5 tickets and 5 transactions*	167.00 T	0.00	167.00	0.00
DUT - DUTCHESS / NY *5 tickets and 5 transactions*		0.00	167.00	0.00

HORN - CITY OF HORNELL				
MS - MSW *27 tickets and 27 transactions*	311.05 T	0.00	311.05	0.00
HORN - CITY OF HORNELL *27 tickets and 27 transactions*		0.00	311.05	0.00
K - KINGS / NY				
CD - CONSTRUCTION DEBRIS *16 tickets and 16 transactions*	534.39 T	0.00	534.39	0.00
CDAD - CONSTRUCTION DEBRIS (BUD ADC) *14 tickets and 14 transactions*	353.82 T	0.00	353.82	0.00
MBTI - MBI TIPPER CHARGE *14 tickets and 14 transactions*	14.00 U	0.00	0.00	0.00
K - KINGS / NY *30 tickets and 44 transactions*		0.00	888.21	0.00
LIV - LIVINGSTON / NY				
MX - MSW & MIXED TRASH *22 tickets and 22 transactions*	230.82 T	0.00	230.82	0.00
LIV - LIVINGSTON / NY *22 tickets and 22 transactions*		0.00	230.82	0.00
NAS - NASSAU				
DO - DIG OUT SERVICE *1 ticket and 1 transaction*	1.00 U	0.00	0.00	0.00
ICSL - I/C SLUDGE *4 tickets and 4 transactions*	156.42 T	0.00	156.42	0.00
MBTI - MBI TIPPER CHARGE *33 tickets and 33 transactions*	33.00 U	0.00	0.00	0.00
MS - MSW *33 tickets and 33 transactions*	1,175.88 T	0.00	1,175.88	0.00
NAS - NASSAU *37 tickets and 71 transactions*		0.00	1,332.30	0.00

O - ORANGE / NY				
CDAD - CONSTRUCTION DEBRIS (BUD ADC) *13 tickets and 13 transactions*	417.43 T	0.00	417.43	0.00
DO - DIG OUT SERVICE *3 tickets and 3 transactions*	3.00 U	0.00	0.00	0.00
ICSL - I/C SLUDGE *2 tickets and 2 transactions*	75.08 T	0.00	75.08	0.00
MBTI - MBI TIPPER CHARGE *8 tickets and 8 transactions*	8.00 U	0.00	0.00	0.00
O - ORANGE / NY *15 tickets and 26 transactions*		0.00	492.51	0.00
ONO - ONONDAGA / NY				
ONO - ONONDAGA / NY				
4427 - NON-HAZ LIQUID 4427 *4 tickets and 4 transactions*	23.44 T	0.00	23.44	0.00
4966 - OILY TANK BOTTOMS 4966 *3 tickets and 3 transactions*	33.84 T	0.00	33.84	0.00
SL - SLUDGE *7 tickets and 7 transactions*	238.66 T	0.00	238.66	0.00
ONO - ONONDAGA / NY *14 tickets and 14 transactions*		0.00	295.94	0.00
POT - POTTER / PA				
ICCP - MSW POTTER COUNTY *7 tickets and 7 transactions*	127.21 T	0.00	127.21	0.00
ICMX - I-C MSW & CD MIXED TRASH *1 ticket and 1 transaction*	2.94 T	0.00	2.94	0.00
MBTP - I/C MBI TIPPER *6 tickets and 6 transactions*	6.00 U	0.00	0.00	0.00
POT - POTTER / PA *8 tickets and 14 transactions*		0.00	130.15	0.00
Q - QUEENS / NY				
CD - CONSTRUCTION DEBRIS *5 tickets and 5 transactions*	168.97 T	0.00	168.97	0.00

CDAD - CONSTRUCTION DEBRIS (BUD ADC) *1 ticket and 1 transaction*	36.29 T	0.00	36.29	0.00
DO - DIG OUT SERVICE *1 ticket and 1 transaction*	1.00 U	0.00	0.00	0.00
MBTI - MBI TIPPER CHARGE *5 tickets and 5 transactions*	5.00 U	0.00	0.00	0.00
Q - QUEENS / NY *6 tickets and 12 transactions*		0.00	205.26	0.00
RO - ROCKLAND / NY				
MBTI - MBI TIPPER CHARGE *25 tickets and 25 transactions*	25.00 U	0.00	0.00	0.00
RO - ROCKLAND / NY				
MS - MSW *303 tickets and 303 transactions*	11,077.29 T	0.00	11,077.29	0.00
RO - ROCKLAND / NY *303 tickets and 328 transactions*		0.00	11,077.29	0.00
SN - SUFFOLK (NY)				
ICSL - I/C SLUDGE *90 tickets and 90 transactions*	2,902.46 T	0.00	2,902.46	0.00
MBTI - MBI TIPPER CHARGE *14 tickets and 14 transactions*	14.00 U	0.00	0.00	0.00
MS - MSW *14 tickets and 14 transactions*	487.11 T	0.00	487.11	0.00
SN - SUFFOLK (NY) *104 tickets and 118 transactions*		0.00	3,389.57	0.00
STE - STEUBEN / NY				
CD - CONSTRUCTION DEBRIS *75 tickets and 75 transactions*	276.97 T	0.00	276.97	0.00
ICTR - I/C Mixed Waste TT *46 tickets and 46 transactions*	1,724.09 T	0.00	1,724.09	0.00
MS - MSW *57 tickets and 57 transactions*	482.53 T	0.00	482.53	0.00
STE - STEUBEN / NY *178 tickets and 178 transactions*		0.00	2,483.59	0.00

SUL - SULLIVAN / NY				
BUFA - BULK FRIABLE ASBESTOS *11 tickets and 11 transactions*	245.61 T	0.00	245.61	0.00
CD - CONSTRUCTION DEBRIS *9 tickets and 9 transactions*	270.64 T	0.00	270.64	0.00
CDAD - CONSTRUCTION DEBRIS (BUD ADC) *12 tickets and 12 transactions*	400.99 T	0.00	400.99	0.00
MBTI - MBI TIPPER CHARGE *18 tickets and 18 transactions*	18.00 U	0.00	0.00	0.00
SUL - SULLIVAN / NY *32 tickets and 50 transactions*		0.00	917.24	0.00
SUS - SUSSEX/ NJ				
CDAD - CONSTRUCTION DEBRIS (BUD ADC) *5 tickets and 5 transactions*	109.51 T	0.00	109.51	0.00
SUS - SUSSEX/ NJ *5 tickets and 5 transactions*		0.00	109.51	0.00
TI - TIOGA/NY				
1730 - ASR BULKING AGENT 1730S *8 tickets and 8 transactions*	222.47 T	0.00	222.47	0.00
UPAS - 1730 AUTO SHREDDER *42 tickets and 42 transactions*	1,160.72 T	0.00	1,160.72	0.00
TI - TIOGA/NY *50 tickets and 50 transactions*		0.00	1,383.19	0.00
TOM - TOMPKINS / NY				
CO - CLEAN OUT SERVICE *2 tickets and 2 transactions*	2.00 U	0.00	0.00	0.00
ICMS - I-C MSW *56 tickets and 56 transactions*	1,858.18 T	0.00	1,858.18	0.00
MSSL - INDUSTRIAL SOLIDIFICATION *2 tickets and 2 transactions*	18.51 T	0.00	18.51	0.00
TOM - TOMPKINS / NY *58 tickets and 60 transactions*		0.00	1,876.69	0.00

ULS - ULSTER NY				
CDAD - CONSTRUCTION DEBRIS (BUD ADC) *7 tickets and 7 transactions*	216.40 T	0.00	216.40	0.00
DO - DIG OUT SERVICE *1 ticket and 1 transaction*	1.00 U	0.00	0.00	0.00
MBTI - MBI TIPPER CHARGE *7 tickets and 7 transactions*	7.00 U	0.00	0.00	0.00
ULS - ULSTER NY *7 tickets and 15 transactions*		0.00	216.40	0.00
WES - WESTCHESTER / NY				
CD - CONSTRUCTION DEBRIS *12 tickets and 12 transactions*	429.80 T	0.00	429.80	0.00
ICSL - I/C SLUDGE *7 tickets and 7 transactions*	255.40 T	0.00	255.40	0.00
MBTI - MBI TIPPER CHARGE *65 tickets and 65 transactions*	65.00 U	0.00	0.00	0.00
MS - MSW *57 tickets and 57 transactions*	2,019.43 T	0.00	2,019.43	0.00
WES - WESTCHESTER / NY *76 tickets and 141 transactions*		0.00	2,704.63	0.00
Report Grand Totals		0.00	35,415.54	0.00
1,426 tickets and 1,682 transactions				**End of Report**

RpOrgWs.rpt

Origin: All

Hyland Facility Associates

Origin/Material Report

Transactions from 11/01/2019 through 11/30/2019
Inbound Tickets Only
Third Party and Intercompany Customers
Recycle and Disposal Material
Material Summary

	Bill Units	Cubic Yards	Tons	Est Tons
ALL - ALLEGANY / NY				
6534 - I/C PLANT TRASH 6534 *4 tickets and 4 transactions*	8.90 T	0.00	8.90	0.00
6535 - I/C PLANT TRASH 6535 *2 tickets and 2 transactions*	5.73 T	0.00	5.73	0.00
6645 - MIXED PLANT TRASH 6645 *10 tickets and 10 transactions*	68.46 T	0.00	68.46	0.00
6646 - MIXED PLANT TRASH 6646 *2 tickets and 2 transactions*	10.85 T	0.00	10.85	0.00
BAFA - BAGGED FRIABLE ASBESTOS *1 ticket and 1 transaction*	1.54 T	0.00	1.54	0.00
CD - CONSTRUCTION DEBRIS *18 tickets and 18 transactions*	40.68 T	0.00	40.68	0.00
ICAW - I/C Allegany Cty Waste *3 tickets and 3 transactions*	12.56 T	0.00	12.56	0.00
ICCD - I-C CONSTUCTION DEBRIS *6 tickets and 6 transactions*	31.74 T	0.00	31.74	0.00

ICDO - I-C DIG OUT SERVICE *2 tickets and 2 transactions*	2.00 U	0.00	0.00	0.00
ICSD - I/C SAPUTO DAIRY TRASH *13 tickets and 13 transactions*	69.32 T	0.00	69.32	0.00
MS - MSW *105 tickets and 105 transactions*	1,045.22 T	0.00	1,045.22	0.00
VWSL - 331 WWTP SLUDGE *4 tickets and 4 transactions*	56.39 T	0.00	56.39	0.00
ALL - ALLEGANY / NY *168 tickets and 170 transactions*		0.00	1,351.39	0.00
BRON - BRONX / NY				
CDAD - CONSTRUCTION DEBRIS (BUD ADC) *30 tickets and 30 transactions*	1,059.05 T	0.00	1,059.05	0.00
MBTI - MBI TIPPER CHARGE *21 tickets and 21 transactions*	21.00 U	0.00	0.00	0.00
BRON - BRONX / NY *30 tickets and 51 transactions*		0.00	1,059.05	0.00
CAT - CATTARAUGUS / NY				
4867 - I/C SAWDUST 4867 *1 ticket and 1 transaction*	4.21 T	0.00	4.21	0.00
6090 - I/C PLANT TRASH 6090 *1 ticket and 1 transaction*	3.71 T	0.00	3.71	0.00
CD - CONSTRUCTION DEBRIS *4 tickets and 4 transactions*	13.23 T	0.00	13.23	0.00
ICES - 189 INDUSTRIAL / PLANT TRASH *3 tickets and 3 transactions*	35.87 T	0.00	35.87	0.00
ICHA - 188 INDUSTRIAL / PLANT TRASH *5 tickets and 5 transactions*	20.40 T	0.00	20.40	0.00
ICLE - 1548 I/C TOBACCO *5 tickets and 5 transactions*	16.97 T	0.00	16.97	0.00
ICMS - I-C MSW *1 ticket and 1 transaction*	1.40 T	0.00	1.40	0.00

ICOS - 582 OLEAN WWTP SLUDGE *8 tickets and 8 transactions*	114.16 T	0.00	114.16	0.00
ICTR - I/C Mixed Waste TT *41 tickets and 41 transactions*	1,082.70 T	0.00	1,082.70	0.00
ICWN - 2021 I/C WWTP SLUDGE *2 tickets and 2 transactions*	35.86 T	0.00	35.86	0.00
MBTP - I/C MBI TIPPER *39 tickets and 39 transactions*	39.00 U	0.00	0.00	0.00
CAT - CATTARAUGUS / NY *71 tickets and 110 transactions*		0.00	1,328.51	0.00
CHA - CHAUTAUQUA / (NY)				
ICTR - I/C Mixed Waste TT *3 tickets and 3 transactions*	31.99 T	0.00	31.99	0.00
MBTP - I/C MBI TIPPER *3 tickets and 3 transactions*	3.00 U	0.00	0.00	0.00
CHA - CHAUTAUQUA / (NY) *3 tickets and 6 transactions*		0.00	31.99	0.00
CHE - CHEMUNG / NY				
CHE - CHEMUNG / NY				
ICMS - I-C MSW *131 tickets and 131 transactions*	4,826.34 T	0.00	4,826.34	0.00
CHE - CHEMUNG / NY *131 tickets and 131 transactions*		0.00	4,826.34	0.00
CHI - CHITTENDEN / VT				
4155 - NON-HAZ LIQUID 4155 *4 tickets and 4 transactions*	62.23 T	0.00	62.23	0.00
4217 - NON-HAZ SOLIDS 4217 *4 tickets and 4 transactions*	10.97 T	0.00	10.97	0.00
CHI - CHITTENDEN / VT *8 tickets and 8 transactions*		0.00	73.20	0.00

CHNH - CHESHIRE/NH				
4286 - I/C NON HAZ LIQUIDS 4286 *1 ticket and 1 transaction*	21.74 T	0.00	21.74	0.00
CHNH - CHESHIRE/NH *1 ticket and 1 transaction*		0.00	21.74	0.00
CO - CORTLAND / NY				
6112 - OFF SPEC PROD W/LIQ 6112 *2 tickets and 2 transactions*	22.37 T	0.00	22.37	0.00
CO - CORTLAND / NY *2 tickets and 2 transactions*		0.00	22.37	0.00
HORN - CITY OF HORNELL				
MS - MSW *26 tickets and 26 transactions*	297.26 T	0.00	297.26	0.00
HORN - CITY OF HORNELL *26 tickets and 26 transactions*		0.00	297.26	0.00
K - KINGS / NY				
K - KINGS / NY				
CD - CONSTRUCTION DEBRIS *20 tickets and 20 transactions*	658.93 T	0.00	658.93	0.00
CDAD - CONSTRUCTION DEBRIS (BUD ADC) *6 tickets and 6 transactions*	153.30 T	0.00	153.30	0.00
DO - DIG OUT SERVICE *3 tickets and 3 transactions*	3.00 U	0.00	0.00	0.00
MBTI - MBI TIPPER CHARGE *18 tickets and 18 transactions*	18.00 U	0.00	0.00	0.00
K - KINGS / NY *26 tickets and 47 transactions*		0.00	812.23	0.00
LIV - LIVINGSTON / NY				
CD - CONSTRUCTION DEBRIS *1 ticket and 1 transaction*	4.77 T	0.00	4.77	0.00
MX - MSW & MIXED TRASH *21 tickets and 21 transactions*	231.72 T	0.00	231.72	0.00
LIV - LIVINGSTON / NY *22 tickets and 22 transactions*		0.00	236.49	0.00

MCK - MCKEAN / PA				
CD - CONSTRUCTION DEBRIS *1 ticket and 1 transaction*	9.01 T	0.00	9.01	0.00
MCK - MCKEAN / PA *1 ticket and 1 transaction*		0.00	9.01	0.00
MON - MONROE NY				
ICMS - I-C MSW *12 tickets and 12 transactions*	378.50 T	0.00	378.50	0.00
MBTP - I/C MBI TIPPER *3 tickets and 3 transactions*	3.00 U	0.00	0.00	0.00
MON - MONROE NY *12 tickets and 15 transactions*		0.00	378.50	0.00
NAS - NASSAU				
ICSL - I/C SLUDGE *34 tickets and 34 transactions*	1,231.14 T	0.00	1,231.14	0.00
NAS - NASSAU *34 tickets and 34 transactions*		0.00	1,231.14	0.00
O - ORANGE / NY				
CDAD - CONSTRUCTION DEBRIS (BUD ADC) *14 tickets and 14 transactions*	469.43 T	0.00	469.43	0.00
DO - DIG OUT SERVICE *1 ticket and 1 transaction*	1.00 U	0.00	0.00	0.00
MBTI - MBI TIPPER CHARGE *13 tickets and 13 transactions*	13.00 U	0.00	0.00	0.00
O - ORANGE / NY *14 tickets and 28 transactions*		0.00	469.43	0.00
ONO - ONONDAGA / NY				
4427 - NON-HAZ LIQUID 4427 *1 ticket and 1 transaction*	6.21 T	0.00	6.21	0.00
4966 - OILY TANK BOTTOMS 4966 *5 tickets and 5 transactions*	62.83 T	0.00	62.83	0.00
SL - SLUDGE *6 tickets and 6 transactions*	209.07 T	0.00	209.07	0.00
ONO - ONONDAGA / NY *12 tickets and 12 transactions*		0.00	278.11	0.00

POT - POTTER / PA				
ICCD - I-C CONSTUCTION DEBRIS *1 ticket and 1 transaction*	3.30 T	0.00	3.30	0.00
ICCP - MSW POTTER COUNTY *3 tickets and 3 transactions*	40.32 T	0.00	40.32	0.00
ICTQ - 1660 IC General Trash *1 ticket and 1 transaction*	2.50 T	0.00	2.50	0.00
MBTP - I/C MBI TIPPER *3 tickets and 3 transactions*	3.00 U	0.00	0.00	0.00
POT - POTTER / PA *5 tickets and 8 transactions*		0.00	46.12	0.00
Q - QUEENS / NY				
CD - CONSTRUCTION DEBRIS *2 tickets and 2 transactions*	73.36 T	0.00	73.36	0.00
MBTI - MBI TIPPER CHARGE *2 tickets and 2 transactions*	2.00 U	0.00	0.00	0.00
Q - QUEENS / NY *2 tickets and 4 transactions*		0.00	73.36	0.00
RO - ROCKLAND / NY				
DO - DIG OUT SERVICE *3 tickets and 3 transactions*	3.00 U	0.00	0.00	0.00
MBTI - MBI TIPPER CHARGE *22 tickets and 22 transactions*	22.00 U	0.00	0.00	0.00
MS - MSW *317 tickets and 317 transactions*	11,759.35 T	0.00	11,759.35	0.00
RO - ROCKLAND / NY *317 tickets and 342 transactions*		0.00	11,759.35	0.00
SCH - SCHOHARIE / NY				
ICSL - I/C SLUDGE *5 tickets and 5 transactions*	166.54 T	0.00	166.54	0.00
SCH - SCHOHARIE / NY *5 tickets and 5 transactions*		0.00	166.54	0.00
SN - SUFFOLK (NY)				
ICSL - I/C SLUDGE *91 tickets and 91 transactions*	3,221.43 T	0.00	3,221.43	0.00

SN - SUFFOLK (NY)		0.00	3,221.43	0.00
91 tickets and 91 transactions				
STE - STEUBEN / NY				
STE - STEUBEN / NY				
CD - CONSTRUCTION DEBRIS	324.23 T	0.00	324.23	0.00
75 tickets and 75 transactions				
ICTR - I/C Mixed Waste TT	1,339.04 T	0.00	1,339.04	0.00
37 tickets and 37 transactions				
MS - MSW	463.86 T	0.00	463.86	0.00
56 tickets and 56 transactions				
STE - STEUBEN / NY		0.00	2,127.13	0.00
168 tickets and 168 transactions				
SUL - SULLIVAN / NY				
CDAD - CONSTRUCTION DEBRIS (BUD ADC)	22.69 T	0.00	22.69	0.00
2 tickets and 2 transactions				
DO - DIG OUT SERVICE	1.00 U	0.00	0.00	0.00
1 ticket and 1 transaction				
HAFE - HANDLING FEE	1.00 U	0.00	0.00	0.00
1 ticket and 1 transaction				
MBTI - MBI TIPPER CHARGE	2.00 U	0.00	0.00	0.00
2 tickets and 2 transactions				
SUL - SULLIVAN / NY		0.00	22.69	0.00
2 tickets and 6 transactions				
TI - TIOGA/NY				
1730 - ASR BULKING AGENT 1730S	362.48 T	0.00	362.48	0.00
13 tickets and 13 transactions				
UPAS - 1730 AUTO SHREDDER	1,331.75 T	0.00	1,331.75	0.00
48 tickets and 48 transactions				
TI - TIOGA/NY		0.00	1,694.23	0.00
61 tickets and 61 transactions				
TOM - TOMPKINS / NY				
CO - CLEAN OUT SERVICE	3.00 U	0.00	0.00	0.00
3 tickets and 3 transactions				
ICMS - I-C MSW	338.60 T	0.00	338.60	0.00
10 tickets and 10 transactions				

TOM - TOMPKINS / NY				
MSSL - INDUSTRIAL SOLIDIFICATION *3 tickets and 3 transactions*	21.10 T	0.00	21.10	0.00
TOM - TOMPKINS / NY *13 tickets and 16 transactions*		0.00	359.70	0.00
ULS - ULSTER NY				
CDAD - CONSTRUCTION DEBRIS (BUD ADC) *10 tickets and 10 transactions*	303.05 T	0.00	303.05	0.00
DO - DIG OUT SERVICE *1 ticket and 1 transaction*	1.00 U	0.00	0.00	0.00
MBTI - MBI TIPPER CHARGE *9 tickets and 9 transactions*	9.00 U	0.00	0.00	0.00
ULS - ULSTER NY *10 tickets and 20 transactions*		0.00	303.05	0.00
WES - WESTCHESTER / NY				
CD - CONSTRUCTION DEBRIS *21 tickets and 21 transactions*	748.21 T	0.00	748.21	0.00
ICSL - I/C SLUDGE *10 tickets and 10 transactions*	359.57 T	0.00	359.57	0.00
MBTI - MBI TIPPER CHARGE *50 tickets and 50 transactions*	50.00 U	0.00	0.00	0.00
MS - MSW *31 tickets and 31 transactions*	1,061.94 T	0.00	1,061.94	0.00
WES - WESTCHESTER / NY *62 tickets and 112 transactions*		0.00	2,169.72	0.00
Report Grand Totals		0.00	34,370.08	0.00
1,297 tickets and 1,497 transactions				

End of Report

RpOrgWs.rpt

Origin: All

Hyland Facility Associates

Origin/Material Report

Transactions from 12/01/2019 through 12/31/2019
Inbound Tickets Only
Third Party and Intercompany Customers
Recycle and Disposal Material
Material Summary

	Bill Units	Cubic Yards	Tons	Est Tons
ALL - ALLEGANY / NY				
6534 - I/C PLANT TRASH 6534 *4 tickets and 4 transactions*	8.29 T	0.00	8.29	0.00
6535 - I/C PLANT TRASH 6535 *3 tickets and 3 transactions*	6.65 T	0.00	6.65	0.00
6645 - MIXED PLANT TRASH 6645 *9 tickets and 9 transactions*	56.57 T	0.00	56.57	0.00
6646 - MIXED PLANT TRASH 6646 *1 ticket and 1 transaction*	6.09 T	0.00	6.09	0.00
6864 - METAL GRINDING 6864 *1 ticket and 1 transaction*	10.66 T	0.00	10.66	0.00
CD - CONSTRUCTION DEBRIS *28 tickets and 28 transactions*	111.16 T	0.00	111.16	0.00
DO - DIG OUT SERVICE *1 ticket and 1 transaction*	1.00 U	0.00	0.00	0.00
ICAW - I/C Allegany Cty Waste *5 tickets and 5 transactions*	21.64 T	0.00	21.64	0.00
ICCD - I-C CONSTUCTION DEBRIS *3 tickets and 3 transactions*	11.85 T	0.00	11.85	0.00

ICDO - I-C DIG OUT SERVICE *3 tickets and 3 transactions*	3.00 U	0.00	0.00	0.00
ICMS - I-C MSW *1 ticket and 1 transaction*	17.51 T	0.00	17.51	0.00
ICSD - I/C SAPUTO DAIRY TRASH *13 tickets and 13 transactions*	70.57 T	0.00	70.57	0.00
MS - MSW *87 tickets and 87 transactions*	820.61 T	0.00	820.61	0.00
MX - MSW & MIXED TRASH *2 tickets and 2 transactions*	1.09 T	0.00	1.09	0.00
VWSL - 331 WWTP SLUDGE *3 tickets and 3 transactions*	39.59 T	0.00	39.59	0.00
ALL - ALLEGANY / NY *160 tickets and 164 transactions*		0.00	1,182.28	0.00
BRON - BRONX / NY				
CDAD - CONSTRUCTION DEBRIS (BUD ADC) *28 tickets and 28 transactions*	1,010.45 T	0.00	1,010.45	0.00
BRON - BRONX / NY				
MBTI - MBI TIPPER CHARGE *22 tickets and 22 transactions*	22.00 U	0.00	0.00	0.00
BRON - BRONX / NY *28 tickets and 50 transactions*		0.00	1,010.45	0.00
BUR - BURLINGTON/NJ				
MSSL - INDUSTRIAL SOLIDIFICATION *1 ticket and 1 transaction*	19.41 T	0.00	19.41	0.00
BUR - BURLINGTON/NJ *1 ticket and 1 transaction*		0.00	19.41	0.00
CAT - CATTARAUGUS / NY				
4867 - I/C SAWDUST 4867 *1 ticket and 1 transaction*	4.09 T	0.00	4.09	0.00
6090 - I/C PLANT TRASH 6090 *1 ticket and 1 transaction*	3.93 T	0.00	3.93	0.00
CD - CONSTRUCTION DEBRIS *2 tickets and 2 transactions*	9.80 T	0.00	9.80	0.00

DO - DIG OUT SERVICE *1 ticket and 1 transaction*	1.00 U	0.00	0.00	0.00
ICBD - I/C BUD ADC *1 ticket and 1 transaction*	9.26 T	0.00	9.26	0.00
ICCD - I-C CONSTUCTION DEBRIS *1 ticket and 1 transaction*	4.25 T	0.00	4.25	0.00
ICES - 189 INDUSTRIAL / PLANT TRASH *4 tickets and 4 transactions*	24.80 T	0.00	24.80	0.00
ICHA - 188 INDUSTRIAL / PLANT TRASH *3 tickets and 3 transactions*	6.88 T	0.00	6.88	0.00
ICLE - 1548 I/C TOBACCO *4 tickets and 4 transactions*	10.60 T	0.00	10.60	0.00
ICOS - 582 OLEAN WWTP SLUDGE *3 tickets and 3 transactions*	45.45 T	0.00	45.45	0.00
ICTR - I/C Mixed Waste TT *38 tickets and 38 transactions*	903.68 T	0.00	903.68	0.00
CAT - CATTARAUGUS / NY				
ICWN - 2021 I/C WWTP SLUDGE *1 ticket and 1 transaction*	16.12 T	0.00	16.12	0.00
MBTP - I/C MBI TIPPER *37 tickets and 37 transactions*	37.00 U	0.00	0.00	0.00
CAT - CATTARAUGUS / NY *59 tickets and 97 transactions*		0.00	1,038.86	0.00
CHA - CHAUTAUQUA / (NY)				
ICTR - I/C Mixed Waste TT *3 tickets and 3 transactions*	35.66 T	0.00	35.66	0.00
MBTP - I/C MBI TIPPER *3 tickets and 3 transactions*	3.00 U	0.00	0.00	0.00
CHA - CHAUTAUQUA / (NY) *3 tickets and 6 transactions*		0.00	35.66	0.00
CHE - CHEMUNG / NY				
ICMS - I-C MSW *124 tickets and 124 transactions*	4,534.25 T	0.00	4,534.25	0.00
CHE - CHEMUNG / NY *124 tickets and 124 transactions*		0.00	4,534.25	0.00

CHI - CHITTENDEN / VT				
4155 - NON-HAZ LIQUID 4155 *6 tickets and 6 transactions*	84.78 T	0.00	84.78	0.00
4217 - NON-HAZ SOLIDS 4217 *6 tickets and 6 transactions*	22.49 T	0.00	22.49	0.00
CHI - CHITTENDEN / VT *12 tickets and 12 transactions*		0.00	107.27	0.00
CHNH - CHESHIRE/NH				
4286 - I/C NON HAZ LIQUIDS 4286 *1 ticket and 1 transaction*	21.41 T	0.00	21.41	0.00
CHNH - CHESHIRE/NH *1 ticket and 1 transaction*		0.00	21.41	0.00
CO - CORTLAND / NY				
6112 - OFF SPEC PROD W/LIQ 6112 *7 tickets and 7 transactions*	66.85 T	0.00	66.85	0.00
CO - CORTLAND / NY *7 tickets and 7 transactions*		0.00	66.85	0.00
HORN - CITY OF HORNELL				
MS - MSW *28 tickets and 28 transactions*	331.98 T	0.00	331.98	0.00
HORN - CITY OF HORNELL *28 tickets and 28 transactions*		0.00	331.98	0.00
K - KINGS / NY				
CD - CONSTRUCTION DEBRIS *24 tickets and 24 transactions*	788.02 T	0.00	788.02	0.00
DO - DIG OUT SERVICE *2 tickets and 2 transactions*	2.00 U	0.00	0.00	0.00
MBTI - MBI TIPPER CHARGE *21 tickets and 21 transactions*	21.00 U	0.00	0.00	0.00
K - KINGS / NY *24 tickets and 47 transactions*		0.00	788.02	0.00

LIV - LIVINGSTON / NY				
MX - MSW & MIXED TRASH *22 tickets and 22 transactions*	232.04 T	0.00	232.04	0.00
LIV - LIVINGSTON / NY *22 tickets and 22 transactions*		0.00	232.04	0.00
MON - MONROE NY				
ICMS - I-C MSW *1 ticket and 1 transaction*	24.74 T	0.00	24.74	0.00
MON - MONROE NY *1 ticket and 1 transaction*		0.00	24.74	0.00
NAS - NASSAU				
ICSL - I/C SLUDGE *20 tickets and 20 transactions*	722.74 T	0.00	722.74	0.00
NAS - NASSAU *20 tickets and 20 transactions*		0.00	722.74	0.00
ONO - ONONDAGA / NY				
4966 - OILY TANK BOTTOMS 4966 *3 tickets and 3 transactions*	35.49 T	0.00	35.49	0.00
SL - SLUDGE *3 tickets and 3 transactions*	104.08 T	0.00	104.08	0.00
ONO - ONONDAGA / NY *6 tickets and 6 transactions*		0.00	139.57	0.00
POT - POTTER / PA				
ICCP - MSW POTTER COUNTY *8 tickets and 8 transactions*	137.16 T	0.00	137.16	0.00
ICTQ - 1660 IC General Trash *1 ticket and 1 transaction*	0.72 T	0.00	0.72	0.00
MBTP - I/C MBI TIPPER *8 tickets and 8 transactions*	8.00 U	0.00	0.00	0.00
POT - POTTER / PA *9 tickets and 17 transactions*		0.00	137.88	0.00

Q - QUEENS / NY				
CD - CONSTRUCTION DEBRIS *3 tickets and 3 transactions*	103.90 T	0.00	103.90	0.00
DO - DIG OUT SERVICE *1 ticket and 1 transaction*	1.00 U	0.00	0.00	0.00
MBTI - MBI TIPPER CHARGE *3 tickets and 3 transactions*	3.00 U	0.00	0.00	0.00
Q - QUEENS / NY *3 tickets and 7 transactions*		0.00	103.90	0.00
RO - ROCKLAND / NY				
DO - DIG OUT SERVICE *1 ticket and 1 transaction*	1.00 U	0.00	0.00	0.00
MBTI - MBI TIPPER CHARGE *23 tickets and 23 transactions*	23.00 U	0.00	0.00	0.00
MS - MSW *170 tickets and 170 transactions*	6,335.21 T	0.00	6,335.21	0.00
RO - ROCKLAND / NY *170 tickets and 194 transactions*		0.00	6,335.21	0.00
SC - SCHENECTADY / NY				
MSSL - INDUSTRIAL SOLIDIFICATION *2 tickets and 2 transactions*	17.08 T	0.00	17.08	0.00
SC - SCHENECTADY / NY *2 tickets and 2 transactions*		0.00	17.08	0.00
SCH - SCHOHARIE / NY				
ICSL - I/C SLUDGE *2 tickets and 2 transactions*	63.71 T	0.00	63.71	0.00
SCH - SCHOHARIE / NY *2 tickets and 2 transactions*		0.00	63.71	0.00
SN - SUFFOLK (NY)				
ICSL - I/C SLUDGE *113 tickets and 113 transactions*	3,929.52 T	0.00	3,929.52	0.00
SN - SUFFOLK (NY) *113 tickets and 113 transactions*		0.00	3,929.52	0.00

STE - STEUBEN / NY				
CD - CONSTRUCTION DEBRIS *59 tickets and 59 transactions*	249.23 T	0.00	249.23	0.00
STE - STEUBEN / NY				
DO - DIG OUT SERVICE *3 tickets and 3 transactions*	3.00 U	0.00	0.00	0.00
ICTR - I/C Mixed Waste TT *36 tickets and 36 transactions*	1,330.94 T	0.00	1,330.94	0.00
MS - MSW *53 tickets and 53 transactions*	418.88 T	0.00	418.88	0.00
STE - STEUBEN / NY *148 tickets and 151 transactions*		0.00	1,999.05	0.00
SUL - SULLIVAN / NY				
CD - CONSTRUCTION DEBRIS *1 ticket and 1 transaction*	6.66 T	0.00	6.66	0.00
MBTI - MBI TIPPER CHARGE *1 ticket and 1 transaction*	1.00 U	0.00	0.00	0.00
SUL - SULLIVAN / NY *1 ticket and 2 transactions*		0.00	6.66	0.00
SUS - SUSSEX/ NJ				
CDAD - CONSTRUCTION DEBRIS (BUD ADC) *1 ticket and 1 transaction*	22.10 T	0.00	22.10	0.00
SUS - SUSSEX/ NJ *1 ticket and 1 transaction*		0.00	22.10	0.00
TI - TIOGA/NY				
1730 - ASR BULKING AGENT 1730S *12 tickets and 12 transactions*	330.37 T	0.00	330.37	0.00
DO - DIG OUT SERVICE *1 ticket and 1 transaction*	1.00 U	0.00	0.00	0.00
IN - INDUSTRIAL *2 tickets and 2 transactions*	22.92 T	0.00	22.92	0.00
UPAS - 1730 AUTO SHREDDER *59 tickets and 59 transactions*	1,720.29 T	0.00	1,720.29	0.00
TI - TIOGA/NY *73 tickets and 74 transactions*		0.00	2,073.58	0.00

TOM - TOMPKINS / NY				
MSSL - INDUSTRIAL SOLIDIFICATION *3 tickets and 3 transactions*	53.28 T	0.00	53.28	0.00
TOM - TOMPKINS / NY *3 tickets and 3 transactions*		0.00	53.28	0.00
ULS - ULSTER NY				
CDAD - CONSTRUCTION DEBRIS (BUD ADC) *4 tickets and 4 transactions*	108.39 T	0.00	108.39	0.00
MBTI - MBI TIPPER CHARGE *4 tickets and 4 transactions*	4.00 U	0.00	0.00	0.00
ULS - ULSTER NY *4 tickets and 8 transactions*		0.00	108.39	0.00
WES - WESTCHESTER / NY				
CD - CONSTRUCTION DEBRIS *21 tickets and 21 transactions*	791.51 T	0.00	791.51	0.00
ICSL - I/C SLUDGE *11 tickets and 11 transactions*	389.33 T	0.00	389.33	0.00
MBTI - MBI TIPPER CHARGE *42 tickets and 42 transactions*	42.00 U	0.00	0.00	0.00
MS - MSW *26 tickets and 26 transactions*	912.48 T	0.00	912.48	0.00
WES - WESTCHESTER / NY *58 tickets and 100 transactions*		0.00	2,093.32	0.00
Report Grand Totals		0.00	27,199.21	0.00
1,083 tickets and 1,260 transactions				**End of Report**

Waste Origin for 2019

Category / Origin / Material Report

Transactions from 01/01/2019 through 12/31/2019
Inbound and Outbound Tickets
Third Party and Intercompany Customers
Recycle and Disposal Material
Material Summary

	Cubic Yards	Tons	Units
ASB - ASBESTOS			
ALB - ALBANY / NY			
BUFA - BULK FRIABLE ASBESTOS	0.00	112.35	0
3 tickets and 3 transactions			
ALB - ALBANY / NY	0.00	112.35	0
3 tickets and 3 transactions			
ALL - ALLEGANY / NY			
BAFA - BAGGED FRIABLE ASBESTOS	0.00	168.53	0
33 tickets and 33 transactions			
FRAS - FRIABLE ASBESTOS WASTE	0.00	0.43	0
1 ticket and 1 transaction			
ICBA - I/C BAGGED FRIABLE ASBESTOS	0.00	52.50	0
8 tickets and 8 transactions			
ALL - ALLEGANY / NY	0.00	221.46	0
42 tickets and 42 transactions			
CAT - CATTARAUGUS / NY			
BUFA - BULK FRIABLE ASBESTOS	0.00	243.70	0
26 tickets and 26 transactions			
ICBA - I/C BAGGED FRIABLE ASBESTOS	0.00	128.01	0
18 tickets and 18 transactions			

ICFR - I-C FRIABLE ASBESTOS	0.00	50.95	0
5 tickets and 5 transactions			
CAT - CATTARAUGUS / NY	0.00	422.66	0
49 tickets and 49 transactions			
CHE - CHEMUNG / NY			
BUFA - BULK FRIABLE ASBESTOS	0.00	146.87	0
5 tickets and 5 transactions			
CHE - CHEMUNG / NY	0.00	146.87	0
5 tickets and 5 transactions			
O - ORANGE / NY			
BUFA - BULK FRIABLE ASBESTOS	0.00	4,144.40	0
116 tickets and 116 transactions			
O - ORANGE / NY	0.00	4,144.40	0
116 tickets and 116 transactions			
OT - OTSEGO / NY			
BUFA - BULK FRIABLE ASBESTOS	0.00	180.64	0
6 tickets and 6 transactions			
OT - OTSEGO / NY	0.00	180.64	0
6 tickets and 6 transactions			
REN - RENSSELAER / NY			
BAFA - BAGGED FRIABLE ASBESTOS	0.00	1.82	0
1 ticket and 1 transaction			
ASB - ASBESTOS			
REN - RENSSELAER / NY	0.00	1.82	0
1 ticket and 1 transaction			
SC - SCHENECTADY / NY			
BUFA - BULK FRIABLE ASBESTOS	0.00	22.97	0
1 ticket and 1 transaction			
SC - SCHENECTADY / NY	0.00	22.97	0
1 ticket and 1 transaction			
STE - STEUBEN / NY			
BAFA - BAGGED FRIABLE ASBESTOS	0.00	103.66	0
12 tickets and 12 transactions			
BUFA - BULK FRIABLE ASBESTOS	0.00	87.03	0
6 tickets and 6 transactions			

ICBA - I/C BAGGED FRIABLE ASBESTOS	0.00	11.01	0
2 tickets and 2 transactions			
STE - STEUBEN / NY	0.00	201.70	0
20 tickets and 20 transactions			
SUL - SULLIVAN / NY			
BUFA - BULK FRIABLE ASBESTOS	0.00	1,709.56	0
81 tickets and 81 transactions			
SUL - SULLIVAN / NY	0.00	1,709.56	0
81 tickets and 81 transactions			
ASB - ASBESTOS	0.00	7,164.43	0
324 tickets and 324 transactions			
BUD - BUD ADC			
ALL - ALLEGANY / NY			
BDCS - BUD CONTAMINATED SOIL	0.00	1,176.09	0
55 tickets and 55 transactions			
ALL - ALLEGANY / NY	0.00	1,176.09	0
55 tickets and 55 transactions			
BRON - BRONX / NY			
CDAD - CONSTRUCTION DEBRIS (BUD ADC)	0.00	3,300.23	0
93 tickets and 93 transactions			
BRON - BRONX / NY	0.00	3,300.23	0
93 tickets and 93 transactions			
CAT - CATTARAUGUS / NY			
ICBD - I/C BUD ADC	0.00	56.23	0
5 tickets and 5 transactions			
CAT - CATTARAUGUS / NY	0.00	56.23	0
5 tickets and 5 transactions			
FAI - FAIRFIELD / CT			
BUD - BUD ADC			
FAI - FAIRFIELD / CT			
BCAS - BUD ASR / ADC	0.00	299.89	0
10 tickets and 10 transactions			
FAI - FAIRFIELD / CT	0.00	299.89	0
10 tickets and 10 transactions			
K - KINGS / NY			
CDAD - CONSTRUCTION DEBRIS (BUD ADC)	0.00	844.75	0
34 tickets and 34 transactions			

K - KINGS / NY	0.00	844.75	0
34 tickets and 34 transactions			
O - ORANGE / NY			
CDAD - CONSTRUCTION DEBRIS (BUD ADC)	0.00	1,197.59	0
37 tickets and 37 transactions			
O - ORANGE / NY	0.00	1,197.59	0
37 tickets and 37 transactions			
POT - POTTER / PA			
3912 - I/C SANDBLAST GRIT 3912	0.00	152.17	0
8 tickets and 8 transactions			
POT - POTTER / PA	0.00	152.17	0
8 tickets and 8 transactions			
Q - QUEENS / NY			
CDAD - CONSTRUCTION DEBRIS (BUD ADC)	0.00	8,046.99	0
222 tickets and 222 transactions			
Q - QUEENS / NY	0.00	8,046.99	0
222 tickets and 222 transactions			
STE - STEUBEN / NY			
BDCS - BUD CONTAMINATED SOIL	0.00	9.19	0
1 ticket and 1 transaction			
STE - STEUBEN / NY	0.00	9.19	0
1 ticket and 1 transaction			
SUL - SULLIVAN / NY			
CDAD - CONSTRUCTION DEBRIS (BUD ADC)	0.00	423.68	0
14 tickets and 14 transactions			
SUL - SULLIVAN / NY	0.00	423.68	0
14 tickets and 14 transactions			
SUS - SUSSEX/ NJ			
CDAD - CONSTRUCTION DEBRIS (BUD ADC)	0.00	175.42	0
8 tickets and 8 transactions			
SUS - SUSSEX/ NJ	0.00	175.42	0
8 tickets and 8 transactions			
TI - TIOGA/NY			
BUD - BUD ADC			
TI - TIOGA/NY			
UPAS - 1730 AUTO SHREDDER	0.00	20,949.15	0
752 tickets and 752 transactions			

TI - TIOGA/NY	0.00	20,949.15	0
752 tickets and 752 transactions			
ULS - ULSTER NY			
CDAD - CONSTRUCTION DEBRIS (BUD ADC)	0.00	1,319.81	0
43 tickets and 43 transactions			
ULS - ULSTER NY	0.00	1,319.81	0
43 tickets and 43 transactions			
BUD - BUD ADC	0.00	37,951.19	0
1,282 tickets and 1,282 transactions			
BUDSBA - BUD SOLIDIFICATION BULKING AGENT			
FAI - FAIRFIELD / CT			
BDSL - BUD BULKING AGENT	0.00	574.31	0
18 tickets and 18 transactions			
FAI - FAIRFIELD / CT	0.00	574.31	0
18 tickets and 18 transactions			
TI - TIOGA/NY			
1730 - ASR BULKING AGENT 1730S	0.00	3,159.72	0
114 tickets and 114 transactions			
TI - TIOGA/NY	0.00	3,159.72	0
114 tickets and 114 transactions			
BUDSBA - BUD SOLIDIFICATION BULKING AGENT	0.00	3,734.03	0
132 tickets and 132 transactions			
C&D - CONSTRUCTION DEBRIS			
ALB - ALBANY / NY			
CD - CONSTRUCTION DEBRIS	0.00	190.78	0
6 tickets and 6 transactions			
ALB - ALBANY / NY	0.00	190.78	0
6 tickets and 6 transactions			
ALL - ALLEGANY / NY			
ACCD - ALLEGANY CTY C&D	0.00	110.97	0
25 tickets and 25 transactions			
AS - NON FRIABLE C&D	0.00	3.44	0
1 ticket and 1 transaction			
CD - CONSTRUCTION DEBRIS	0.00	1,921.14	0
470 tickets and 470 transactions			
ICAS - I-CNON FRIABLE ASBESTOS WASTE	0.00	2.84	0
1 ticket and 1 transaction			
C&D - CONSTRUCTION DEBRIS			
ALL - ALLEGANY / NY			

ICCD - I-C CONSTUCTION DEBRIS	0.00	585.12	0
158 tickets and 158 transactions			
ALL - ALLEGANY / NY	0.00	2,623.51	0
655 tickets and 655 transactions			
BRON - BRONX / NY			
CD - CONSTRUCTION DEBRIS	0.00	18,194.06	0
508 tickets and 508 transactions			
BRON - BRONX / NY	0.00	18,194.06	0
508 tickets and 508 transactions			
CAT - CATTARAUGUS / NY			
AS - NON FRIABLE C&D	0.00	3.64	0
1 ticket and 1 transaction			
CD - CONSTRUCTION DEBRIS	0.00	532.63	0
101 tickets and 101 transactions			
ICCD - I-C CONSTUCTION DEBRIS	0.00	18.12	0
6 tickets and 6 transactions			
CAT - CATTARAUGUS / NY	0.00	554.39	0
108 tickets and 108 transactions			
CHE - CHEMUNG / NY			
CD - CONSTRUCTION DEBRIS	0.00	9.81	0
1 ticket and 1 transaction			
CHE - CHEMUNG / NY	0.00	9.81	0
1 ticket and 1 transaction			
ERI - ERIE / NY			
CD - CONSTRUCTION DEBRIS	0.00	34.44	0
3 tickets and 3 transactions			
ERI - ERIE / NY	0.00	34.44	0
3 tickets and 3 transactions			
K - KINGS / NY			
CD - CONSTRUCTION DEBRIS	0.00	10,303.81	0
325 tickets and 325 transactions			
K - KINGS / NY	0.00	10,303.81	0
325 tickets and 325 transactions			
LIV - LIVINGSTON / NY			
CD - CONSTRUCTION DEBRIS	0.00	86.21	0
11 tickets and 11 transactions			
LIV - LIVINGSTON / NY	0.00	86.21	0
11 tickets and 11 transactions			
MCK - MCKEAN / PA			
CD - CONSTRUCTION DEBRIS	0.00	112.25	0

30 tickets and 30 transactions

C&D - CONSTRUCTION DEBRIS

MCK - MCKEAN / PA	0.00	112.25	0
30 tickets and 30 transactions			
NEW - NEWARK / NJ			
CD - CONSTRUCTION DEBRIS	0.00	108.86	0
3 tickets and 3 transactions			
NEW - NEWARK / NJ	0.00	108.86	0
3 tickets and 3 transactions			
O - ORANGE / NY			
CD - CONSTRUCTION DEBRIS	0.00	4,993.08	0
153 tickets and 153 transactions			
O - ORANGE / NY	0.00	4,993.08	0
153 tickets and 153 transactions			
POT - POTTER / PA			
ICCD - I-C CONSTUCTION DEBRIS	0.00	3.30	0
1 ticket and 1 transaction			
POT - POTTER / PA	0.00	3.30	0
1 ticket and 1 transaction			
Q - QUEENS / NY			
CD - CONSTRUCTION DEBRIS	0.00	3,242.78	0
93 tickets and 93 transactions			
Q - QUEENS / NY	0.00	3,242.78	0
93 tickets and 93 transactions			
RO - ROCKLAND / NY			
CD - CONSTRUCTION DEBRIS	0.00	23.00	0
1 ticket and 1 transaction			
RO - ROCKLAND / NY	0.00	23.00	0
1 ticket and 1 transaction			
STE - STEUBEN / NY			
CD - CONSTRUCTION DEBRIS	0.00	3,708.57	0
1,035 tickets and 1,035 transactions			
STE - STEUBEN / NY	0.00	3,708.57	0
1,035 tickets and 1,035 transactions			
SUL - SULLIVAN / NY			
CD - CONSTRUCTION DEBRIS	0.00	1,811.78	0
64 tickets and 64 transactions			
SUL - SULLIVAN / NY	0.00	1,811.78	0
64 tickets and 64 transactions			
TIO - TIOGA/ PA			

CD - CONSTRUCTION DEBRIS	0.00	22.81	0
2 tickets and 2 transactions			
C&D - CONSTRUCTION DEBRIS			
TIO - TIOGA/ PA	0.00	22.81	0
2 tickets and 2 transactions			
ULS - ULSTER NY			
CD - CONSTRUCTION DEBRIS	0.00	3,245.20	0
101 tickets and 101 transactions			
ULS - ULSTER NY	0.00	3,245.20	0
101 tickets and 101 transactions			
WES - WESTCHESTER / NY			
CD - CONSTRUCTION DEBRIS	0.00	12,954.57	0
356 tickets and 356 transactions			
WES - WESTCHESTER / NY	0.00	12,954.57	0
356 tickets and 356 transactions			
WYO - WYOMING / NY			
CD - CONSTRUCTION DEBRIS	0.00	202.53	0
9 tickets and 9 transactions			
WYO - WYOMING / NY	0.00	202.53	0
9 tickets and 9 transactions			
C&D - CONSTRUCTION DEBRIS	0.00	62,425.74	0
3,465 tickets and 3,465 transactions			
CS - CONTAMINATED SOIL			
ALB - ALBANY / NY			
CS - CONTAMINATED SOIL	0.00	17.63	0
2 tickets and 2 transactions			
ALB - ALBANY / NY	0.00	17.63	0
2 tickets and 2 transactions			
ALL - ALLEGANY / NY			
CS - CONTAMINATED SOIL	0.00	31.16	0
1 ticket and 1 transaction			
ALL - ALLEGANY / NY	0.00	31.16	0
1 ticket and 1 transaction			
CHE - CHEMUNG / NY			
CS - CONTAMINATED SOIL	0.00	3,268.19	0
111 tickets and 111 transactions			
CHE - CHEMUNG / NY	0.00	3,268.19	0
111 tickets and 111 transactions			
ONO - ONONDAGA / NY			
CS - CONTAMINATED SOIL	0.00	16.50	0

1 ticket and 1 transaction			
ONO - ONONDAGA / NY	0.00	16.50	0
1 ticket and 1 transaction			
CS - CONTAMINATED SOIL	0.00	3,333.48	0
115 tickets and 115 transactions			
IND - INDUSTRIAL			
ALL - ALLEGANY / NY			
6534 - I/C PLANT TRASH 6534	0.00	119.51	0
52 tickets and 52 transactions			
6535 - I/C PLANT TRASH 6535	0.00	78.27	0
26 tickets and 26 transactions			
6645 - MIXED PLANT TRASH 6645	0.00	720.63	0
113 tickets and 113 transactions			
6646 - MIXED PLANT TRASH 6646	0.00	47.65	0
9 tickets and 9 transactions			
6687 - I/C FOUNDRY SAND 6687	0.00	19.08	0
2 tickets and 2 transactions			
6864 - METAL GRINDING 6864	0.00	33.41	0
3 tickets and 3 transactions			
ICSD - I/C SAPUTO DAIRY TRASH	0.00	783.25	0
155 tickets and 155 transactions			
ALL - ALLEGANY / NY	0.00	1,801.80	0
360 tickets and 360 transactions			
CAT - CATTARAUGUS / NY			
4867 - I/C SAWDUST 4867	0.00	58.51	0
13 tickets and 13 transactions			
6090 - I/C PLANT TRASH 6090	0.00	53.31	0
12 tickets and 12 transactions			
6091 - I/C UNUSED PRODUCT 6091	0.00	102.30	0
4 tickets and 4 transactions			
6849 - I/C USED OIL FILTERS 6849	0.00	1.39	0
1 ticket and 1 transaction			
ICCS - I-C CONTAMINATED SOIL	0.00	15.37	0
2 tickets and 2 transactions			
ICES - 189 INDUSTRIAL / PLANT TRASH	0.00	518.25	0
53 tickets and 53 transactions			
ICHA - 188 INDUSTRIAL / PLANT TRASH	0.00	154.97	0
49 tickets and 49 transactions			
ICIN - I-C INDUSTRIAL	0.00	132.62	0

25 tickets and 25 transactions			
ICLE - 1548 I/C TOBACCO	0.00	180.10	0
46 tickets and 46 transactions			
ICLV - I/C INDUSTRIAL WASTE	0.00	2.31	0
1 ticket and 1 transaction			
ICPO - 1830 POLYURANTHANE SCRAPS(185)	0.00	17.32	0
6 tickets and 6 transactions			
ICTP - 230 Plant Trash/Powder Paint	0.00	8.59	0
1 ticket and 1 transaction			
IND - INDUSTRIAL			
CAT - CATTARAUGUS / NY	0.00	1,245.04	0
213 tickets and 213 transactions			
CHI - CHITTENDEN / VT			
4217 - NON-HAZ SOLIDS 4217	0.00	221.91	0
61 tickets and 61 transactions			
CHI - CHITTENDEN / VT	0.00	221.91	0
61 tickets and 61 transactions			
LIV - LIVINGSTON / NY			
IN - INDUSTRIAL	0.00	14.98	0
1 ticket and 1 transaction			
LIV - LIVINGSTON / NY	0.00	14.98	0
1 ticket and 1 transaction			
MCK - MCKEAN / PA			
ICIN - I-C INDUSTRIAL	0.00	1.82	0
4 tickets and 4 transactions			
MCK - MCKEAN / PA	0.00	1.82	0
4 tickets and 4 transactions			
O - ORANGE / NY			
IN - INDUSTRIAL	0.00	42.40	0
2 tickets and 2 transactions			
O - ORANGE / NY	0.00	42.40	0
2 tickets and 2 transactions			
POT - POTTER / PA			
4376 - I/C PLANT TRASH 4376	0.00	7.77	0
1 ticket and 1 transaction			
4820 - I/C CHAT PLANT TRASH 4820	0.00	11.69	0
4 tickets and 4 transactions			
ICIN - I-C INDUSTRIAL	0.00	52.70	0
3 tickets and 3 transactions			

ICTQ - 1660 IC General Trash *7 tickets and 7 transactions*	0.00	10.48	0
POT - POTTER / PA *15 tickets and 15 transactions*	0.00	82.64	0
TI - TIOGA/NY			
IN - INDUSTRIAL *2 tickets and 2 transactions*	0.00	22.92	0
TI - TIOGA/NY *2 tickets and 2 transactions*	0.00	22.92	0
IND - INDUSTRIAL *658 tickets and 658 transactions*	0.00	3,433.51	0
LEACH - LEACHATE			
LEACH - LEACHATE			
ALL - ALLEGANY / NY			
LEACH - LEACHATE *1,728 tickets and 1,728 transactions*	0.00	0.00	0
ALL - ALLEGANY / NY *1,728 tickets and 1,728 transactions*	0.00	0.00	0
CAT - CATTARAUGUS / NY			
LEACH - LEACHATE *2 tickets and 2 transactions*	0.00	0.00	0
CAT - CATTARAUGUS / NY *2 tickets and 2 transactions*	0.00	0.00	0
STE - STEUBEN / NY			
LEACH - LEACHATE *2 tickets and 2 transactions*	0.00	0.00	0
STE - STEUBEN / NY *2 tickets and 2 transactions*	0.00	0.00	0
LEACH - LEACHATE *1,732 tickets and 1,732 transactions*	0.00	0.00	0
MISC - MISC CHARGES			
ALB - ALBANY / NY			
MBTI - MBI TIPPER CHARGE *1 ticket and 1 transaction*	0.00	0.00	1
ALB - ALBANY / NY *1 ticket and 1 transaction*	0.00	0.00	1
ALL - ALLEGANY / NY			
CO - CLEAN OUT SERVICE *1 ticket and 1 transaction*	0.00	0.00	1
DO - DIG OUT SERVICE	0.00	0.00	23

23 tickets and 23 transactions			
ICDO - I-C DIG OUT SERVICE	0.00	0.00	13
13 tickets and 13 transactions			
ICTI - CAR TIRE REGULAR	0.00	0.00	9
2 tickets and 2 transactions			
MBTI - MBI TIPPER CHARGE	0.00	0.00	1
1 ticket and 1 transaction			
TI - CAR TIRES - REGULAR	0.00	0.00	3
2 tickets and 2 transactions			
ALL - ALLEGANY / NY	0.00	0.00	50
41 tickets and 42 transactions			
BRON - BRONX / NY			
DO - DIG OUT SERVICE	0.00	0.00	13
13 tickets and 13 transactions			
MISC - MISC CHARGES			
BRON - BRONX / NY			
MBTI - MBI TIPPER CHARGE	0.00	0.00	346
346 tickets and 346 transactions			
BRON - BRONX / NY	0.00	0.00	359
351 tickets and 359 transactions			
CAT - CATTARAUGUS / NY			
DO - DIG OUT SERVICE	0.00	0.00	4
4 tickets and 4 transactions			
ICDO - I-C DIG OUT SERVICE	0.00	0.00	9
9 tickets and 9 transactions			
MBTP - I/C MBI TIPPER	0.00	0.00	971
971 tickets and 971 transactions			
CAT - CATTARAUGUS / NY	0.00	0.00	984
981 tickets and 984 transactions			
CHA - CHAUTAUQUA / (NY)			
ICDO - I-C DIG OUT SERVICE	0.00	0.00	1
1 ticket and 1 transaction			
MBTP - I/C MBI TIPPER	0.00	0.00	26
26 tickets and 26 transactions			
CHA - CHAUTAUQUA / (NY)	0.00	0.00	27
26 tickets and 27 transactions			
CHE - CHEMUNG / NY			
ICDO - I-C DIG OUT SERVICE	0.00	0.00	1
1 ticket and 1 transaction			
ICTI - CAR TIRE REGULAR	0.00	0.00	9

3 tickets and 3 transactions			
TI - CAR TIRES - REGULAR	0.00	0.00	7
1 ticket and 1 transaction			
CHE - CHEMUNG / NY	0.00	0.00	17
5 tickets and 5 transactions			
DEL - DELAWARE / NY			
CO - CLEAN OUT SERVICE	0.00	0.00	2
2 tickets and 2 transactions			
DEL - DELAWARE / NY	0.00	0.00	2
2 tickets and 2 transactions			
ERI - ERIE / NY			
MBTI - MBI TIPPER CHARGE	0.00	0.00	2
2 tickets and 2 transactions			
ERI - ERIE / NY	0.00	0.00	2
2 tickets and 2 transactions			
K - KINGS / NY			
MISC - MISC CHARGES			
K - KINGS / NY			
DO - DIG OUT SERVICE	0.00	0.00	16
16 tickets and 16 transactions			
MBTI - MBI TIPPER CHARGE	0.00	0.00	218
218 tickets and 218 transactions			
K - KINGS / NY	0.00	0.00	234
223 tickets and 234 transactions			
MON - MONROE NY			
DO - DIG OUT SERVICE	0.00	0.00	4
4 tickets and 4 transactions			
ICDO - I-C DIG OUT SERVICE	0.00	0.00	1
1 ticket and 1 transaction			
MBTI - MBI TIPPER CHARGE	0.00	0.00	11
11 tickets and 11 transactions			
MBTP - I/C MBI TIPPER	0.00	0.00	5
5 tickets and 5 transactions			
MON - MONROE NY	0.00	0.00	21
19 tickets and 21 transactions			
NAS - NASSAU			
DO - DIG OUT SERVICE	0.00	0.00	2
2 tickets and 2 transactions			
MBTI - MBI TIPPER CHARGE	0.00	0.00	113
113 tickets and 113 transactions			

NAS - NASSAU	0.00	0.00	115
114 tickets and 115 transactions			
NEW - NEWARK / NJ			
MBTI - MBI TIPPER CHARGE	0.00	0.00	3
3 tickets and 3 transactions			
NEW - NEWARK / NJ	0.00	0.00	3
3 tickets and 3 transactions			
O - ORANGE / NY			
DO - DIG OUT SERVICE	0.00	0.00	13
13 tickets and 13 transactions			
MBTI - MBI TIPPER CHARGE	0.00	0.00	116
116 tickets and 116 transactions			
O - ORANGE / NY	0.00	0.00	129
117 tickets and 129 transactions			
POT - POTTER / PA			
MBTP - I/C MBI TIPPER	0.00	0.00	360
360 tickets and 360 transactions			
POT - POTTER / PA	0.00	0.00	360
360 tickets and 360 transactions			
MISC - MISC CHARGES			
Q - QUEENS / NY			
DO - DIG OUT SERVICE	0.00	0.00	21
21 tickets and 21 transactions			
MBTI - MBI TIPPER CHARGE	0.00	0.00	246
246 tickets and 246 transactions			
Q - QUEENS / NY	0.00	0.00	267
252 tickets and 267 transactions			
RO - ROCKLAND / NY			
AP - APPLIANCES	0.00	0.00	2
1 ticket and 1 transaction			
DO - DIG OUT SERVICE	0.00	0.00	42
42 tickets and 42 transactions			
MBTI - MBI TIPPER CHARGE	0.00	0.00	317
317 tickets and 317 transactions			
TI - CAR TIRES - REGULAR	0.00	0.00	42
16 tickets and 16 transactions			
TT - TRAILER TIRE	0.00	0.00	3
2 tickets and 2 transactions			
RO - ROCKLAND / NY	0.00	0.00	406
359 tickets and 378 transactions			

ROC - ROCKINGHAM NH			
MBTI - MBI TIPPER CHARGE	0.00	0.00	1
1 ticket and 1 transaction			
ROC - ROCKINGHAM NH	0.00	0.00	1
1 ticket and 1 transaction			
SN - SUFFOLK (NY)			
DO - DIG OUT SERVICE	0.00	0.00	5
5 tickets and 5 transactions			
ICCO - I/C CLEAN OUT	0.00	0.00	1
1 ticket and 1 transaction			
ICDO - I-C DIG OUT SERVICE	0.00	0.00	1
1 ticket and 1 transaction			
MBTI - MBI TIPPER CHARGE	0.00	0.00	74
74 tickets and 74 transactions			
SN - SUFFOLK (NY)	0.00	0.00	81
76 tickets and 81 transactions			
STE - STEUBEN / NY			
DO - DIG OUT SERVICE	0.00	0.00	6
6 tickets and 6 transactions			
ICDO - I-C DIG OUT SERVICE	0.00	0.00	2
2 tickets and 2 transactions			
MBTI - MBI TIPPER CHARGE	0.00	0.00	3
3 tickets and 3 transactions			
MISC - MISC CHARGES			
STE - STEUBEN / NY			
TI - CAR TIRES - REGULAR	0.00	0.00	4
1 ticket and 1 transaction			
STE - STEUBEN / NY	0.00	0.00	15
12 tickets and 12 transactions			
SUL - SULLIVAN / NY			
DO - DIG OUT SERVICE	0.00	0.00	1
1 ticket and 1 transaction			
MBTI - MBI TIPPER CHARGE	0.00	0.00	68
68 tickets and 68 transactions			
SUL - SULLIVAN / NY	0.00	0.00	69
68 tickets and 69 transactions			
TI - TIOGA/NY			
DO - DIG OUT SERVICE	0.00	0.00	14
14 tickets and 14 transactions			

TI - CAR TIRES - REGULAR	0.00	0.00	15
1 ticket and 1 transaction			
TI - TIOGA/NY	0.00	0.00	29
15 tickets and 15 transactions			
TOM - TOMPKINS / NY			
CO - CLEAN OUT SERVICE	0.00	0.00	6
6 tickets and 6 transactions			
ICTI - CAR TIRE REGULAR	0.00	0.00	4
1 ticket and 1 transaction			
TOM - TOMPKINS / NY	0.00	0.00	10
7 tickets and 7 transactions			
ULS - ULSTER NY			
DO - DIG OUT SERVICE	0.00	0.00	8
8 tickets and 8 transactions			
MBTI - MBI TIPPER CHARGE	0.00	0.00	139
139 tickets and 139 transactions			
ULS - ULSTER NY	0.00	0.00	147
139 tickets and 147 transactions			
WES - WESTCHESTER / NY			
CO - CLEAN OUT SERVICE	0.00	0.00	1
1 ticket and 1 transaction			
DO - DIG OUT SERVICE	0.00	0.00	19
19 tickets and 19 transactions			
MBTI - MBI TIPPER CHARGE	0.00	0.00	1,430
1,430 tickets and 1,430 transactions			
TI - CAR TIRES - REGULAR	0.00	0.00	17
6 tickets and 6 transactions			
MISC - MISC CHARGES			
WES - WESTCHESTER / NY			
TT - TRAILER TIRE	0.00	0.00	7
4 tickets and 4 transactions			
WES - WESTCHESTER / NY	0.00	0.00	1,474
1,435 tickets and 1,460 transactions			
WYO - WYOMING / NY			
DO - DIG OUT SERVICE	0.00	0.00	2
1 ticket and 1 transaction			
WYO - WYOMING / NY	0.00	0.00	2
1 ticket and 1 transaction			
MISC - MISC CHARGES	0.00	0.00	4,805
4,610 tickets and 4,722 transactions			

MSW - MUNICIPAL SOLID WASTE

ALL - ALLEGANY / NY

ACMS - ALLEGANY CTY MSW	0.00	72.83	0
12 tickets and 12 transactions			
ICAW - I/C Allegany Cty Waste	0.00	290.98	0
77 tickets and 77 transactions			
ICMS - I-C MSW	0.00	72.77	0
4 tickets and 4 transactions			
MS - MSW	0.00	11,990.45	0
1,340 tickets and 1,340 transactions			
ALL - ALLEGANY / NY	0.00	12,427.03	0
1,433 tickets and 1,433 transactions			

CAT - CATTARAUGUS / NY

ICMS - I-C MSW	0.00	46.57	0
4 tickets and 4 transactions			
MS - MSW	0.00	13.65	0
6 tickets and 6 transactions			
CAT - CATTARAUGUS / NY	0.00	60.22	0
10 tickets and 10 transactions			

CHE - CHEMUNG / NY

ICMS - I-C MSW	0.00	55,022.82	0
1,524 tickets and 1,524 transactions			
CHE - CHEMUNG / NY	0.00	55,022.82	0
1,524 tickets and 1,524 transactions			

HORN - CITY OF HORNELL

MS - MSW	0.00	3,565.07	0
326 tickets and 326 transactions			
HORN - CITY OF HORNELL	0.00	3,565.07	0
326 tickets and 326 transactions			

MSW - MUNICIPAL SOLID WASTE

LIV - LIVINGSTON / NY

MS - MSW	0.00	9.17	0
2 tickets and 2 transactions			
LIV - LIVINGSTON / NY	0.00	9.17	0
2 tickets and 2 transactions			

MCK - MCKEAN / PA

MS - MSW	0.00	6.66	0
2 tickets and 2 transactions			
MCK - MCKEAN / PA	0.00	6.66	0
2 tickets and 2 transactions			

MON - MONROE NY			
ICMS - I-C MSW	0.00	3,889.19	0
132 tickets and 132 transactions			
MS - MSW	0.00	3,874.03	0
133 tickets and 133 transactions			
MON - MONROE NY	0.00	7,763.22	0
265 tickets and 265 transactions			
NAS - NASSAU			
MS - MSW	0.00	4,267.21	0
119 tickets and 119 transactions			
NAS - NASSAU	0.00	4,267.21	0
119 tickets and 119 transactions			
O - ORANGE / NY			
MS - MSW	0.00	285.95	0
8 tickets and 8 transactions			
O - ORANGE / NY	0.00	285.95	0
8 tickets and 8 transactions			
POT - POTTER / PA			
ICCP - MSW POTTER COUNTY	0.00	6,548.50	0
392 tickets and 392 transactions			
POT - POTTER / PA	0.00	6,548.50	0
392 tickets and 392 transactions			
Q - QUEENS / NY			
MS - MSW	0.00	147.64	0
4 tickets and 4 transactions			
Q - QUEENS / NY	0.00	147.64	0
4 tickets and 4 transactions			
RO - ROCKLAND / NY			
MS - MSW	0.00	115,126.39	0
3,150 tickets and 3,150 transactions			
RO - ROCKLAND / NY	0.00	115,126.39	0
3,150 tickets and 3,150 transactions			
MSW - MUNICIPAL SOLID WASTE			
ROC - ROCKINGHAM NH			
MS - MSW	0.00	37.28	0
1 ticket and 1 transaction			
ROC - ROCKINGHAM NH	0.00	37.28	0
1 ticket and 1 transaction			

SN - SUFFOLK (NY)			
MS - MSW	0.00	2,644.58	0
76 tickets and 76 transactions			
SN - SUFFOLK (NY)	0.00	2,644.58	0
76 tickets and 76 transactions			
STE - STEUBEN / NY			
ICMS - I-C MSW	0.00	38.49	0
1 ticket and 1 transaction			
MS - MSW	0.00	5,588.85	0
715 tickets and 715 transactions			
STE - STEUBEN / NY	0.00	5,627.34	0
716 tickets and 716 transactions			
TI - TIOGA/NY			
MS - MSW	0.00	1,371.71	0
41 tickets and 41 transactions			
TI - TIOGA/NY	0.00	1,371.71	0
41 tickets and 41 transactions			
TOM - TOMPKINS / NY			
ICMS - I-C MSW	0.00	2,339.49	0
70 tickets and 70 transactions			
TOM - TOMPKINS / NY	0.00	2,339.49	0
70 tickets and 70 transactions			
WES - WESTCHESTER / NY			
MS - MSW	0.00	41,640.17	0
1,157 tickets and 1,157 transactions			
WES - WESTCHESTER / NY	0.00	41,640.17	0
1,157 tickets and 1,157 transactions			
MSW - MUNICIPAL SOLID WASTE	0.00	258,890.45	0
9,296 tickets and 9,296 transactions			
MX - MIXED C&D AND MSW			
ALL - ALLEGANY / NY			
ICMX - I-C MSW & CD MIXED TRASH	0.00	1.57	0
2 tickets and 2 transactions			
MX - MSW & MIXED TRASH	0.00	26.60	0
33 tickets and 33 transactions			
MX - MIXED C&D AND MSW			
ALL - ALLEGANY / NY	0.00	28.17	0
35 tickets and 35 transactions			

CAT - CATTARAUGUS / NY			
ICMX - I-C MSW & CD MIXED TRASH	0.00	1.21	0
1 ticket and 1 transaction			
ICTR - I/C Mixed Waste TT	0.00	27,424.25	0
1,081 tickets and 1,081 transactions			
CAT - CATTARAUGUS / NY	0.00	27,425.46	0
1,082 tickets and 1,082 transactions			
CHA - CHAUTAUQUA / (NY)			
ICTR - I/C Mixed Waste TT	0.00	337.25	0
30 tickets and 30 transactions			
CHA - CHAUTAUQUA / (NY)	0.00	337.25	0
30 tickets and 30 transactions			
CHE - CHEMUNG / NY			
ICTR - I/C Mixed Waste TT	0.00	103.10	0
3 tickets and 3 transactions			
CHE - CHEMUNG / NY	0.00	103.10	0
3 tickets and 3 transactions			
LIV - LIVINGSTON / NY			
MX - MSW & MIXED TRASH	0.00	2,576.48	0
249 tickets and 249 transactions			
LIV - LIVINGSTON / NY	0.00	2,576.48	0
249 tickets and 249 transactions			
POT - POTTER / PA			
ICMX - I-C MSW & CD MIXED TRASH	0.00	2.94	0
1 ticket and 1 transaction			
POT - POTTER / PA	0.00	2.94	0
1 ticket and 1 transaction			
STE - STEUBEN / NY			
ICTR - I/C Mixed Waste TT	0.00	17,593.25	0
486 tickets and 486 transactions			
STE - STEUBEN / NY	0.00	17,593.25	0
486 tickets and 486 transactions			
TOM - TOMPKINS / NY			
MX - MSW & MIXED TRASH	0.00	36.68	0
1 ticket and 1 transaction			
TOM - TOMPKINS / NY	0.00	36.68	0
1 ticket and 1 transaction			
MX - MIXED C&D AND MSW	0.00	48,103.33	0
1,887 tickets and 1,887 transactions			

SIM - INDUSTRIAL SOLIDIFICATION

ALL - ALLEGANY / NY

6994 - I/C OFF SPEC FOOD 6994	0.00	3.25	0
1 ticket and 1 transaction			
MSSL - INDUSTRIAL SOLIDIFICATION	0.00	23.63	0
3 tickets and 3 transactions			
ALL - ALLEGANY / NY	0.00	26.88	0
4 tickets and 4 transactions			

BUR - BURLINGTON/NJ

MSSL - INDUSTRIAL SOLIDIFICATION	0.00	157.37	0
8 tickets and 8 transactions			
BUR - BURLINGTON/NJ	0.00	157.37	0
8 tickets and 8 transactions			

CAT - CATTARAUGUS / NY

MSSL - INDUSTRIAL SOLIDIFICATION	0.00	12.57	0
1 ticket and 1 transaction			
CAT - CATTARAUGUS / NY	0.00	12.57	0
1 ticket and 1 transaction			

CHI - CHITTENDEN / VT

4155 - NON-HAZ LIQUID 4155	0.00	892.67	0
66 tickets and 66 transactions			
CHI - CHITTENDEN / VT	0.00	892.67	0
66 tickets and 66 transactions			

CHNH - CHESHIRE/NH

4286 - I/C NON HAZ LIQUIDS 4286	0.00	238.70	0
11 tickets and 11 transactions			
CHNH - CHESHIRE/NH	0.00	238.70	0
11 tickets and 11 transactions			

CO - CORTLAND / NY

6112 - OFF SPEC PROD W/LIQ 6112	0.00	89.22	0
9 tickets and 9 transactions			
CO - CORTLAND / NY	0.00	89.22	0
9 tickets and 9 transactions			

DEL - DELAWARE / NY

MSSL - INDUSTRIAL SOLIDIFICATION	0.00	26.67	0
4 tickets and 4 transactions			
DEL - DELAWARE / NY	0.00	26.67	0
4 tickets and 4 transactions			

GEN - GENESEE / NY

MSSL - INDUSTRIAL SOLIDIFICATION *8 tickets and 8 transactions*	0.00	34.94	0
GEN - GENESEE / NY *8 tickets and 8 transactions*	0.00	34.94	0
SIM - INDUSTRIAL SOLIDIFICATION			
HAM - HAMPDEN / MASS			
ICSO - I/C SOLIDIFICATION *1 ticket and 1 transaction*	0.00	6.32	0
MSSL - INDUSTRIAL SOLIDIFICATION *1 ticket and 1 transaction*	0.00	10.23	0
HAM - HAMPDEN / MASS *2 tickets and 2 transactions*	0.00	16.55	0
ONO - ONONDAGA / NY			
4427 - NON-HAZ LIQUID 4427 *13 tickets and 13 transactions*	0.00	77.68	0
4966 - OILY TANK BOTTOMS 4966 *104 tickets and 104 transactions*	0.00	1,668.49	0
MSSL - INDUSTRIAL SOLIDIFICATION *1 ticket and 1 transaction*	0.00	10.06	0
ONO - ONONDAGA / NY *118 tickets and 118 transactions*	0.00	1,756.23	0
SC - SCHENECTADY / NY			
MSSL - INDUSTRIAL SOLIDIFICATION *2 tickets and 2 transactions*	0.00	17.08	0
SC - SCHENECTADY / NY *2 tickets and 2 transactions*	0.00	17.08	0
STE - STEUBEN / NY			
MSSL - INDUSTRIAL SOLIDIFICATION *5 tickets and 5 transactions*	0.00	38.88	0
STE - STEUBEN / NY *5 tickets and 5 transactions*	0.00	38.88	0
TOM - TOMPKINS / NY			
MSSL - INDUSTRIAL SOLIDIFICATION *10 tickets and 10 transactions*	0.00	112.30	0
TOM - TOMPKINS / NY *10 tickets and 10 transactions*	0.00	112.30	0
WAR - WARREN / NY			
MSSL - INDUSTRIAL SOLIDIFICATION *1 ticket and 1 transaction*	0.00	17.47	0

WAR - WARREN / NY *1 ticket and 1 transaction*	0.00	17.47	0
SIM - INDUSTRIAL SOLIDIFICATION *249 tickets and 249 transactions*	0.00	3,437.53	0
SS - SEWAGE SLUDGE			
ALL - ALLEGANY / NY			
SS - SEWAGE SLUDGE			
ALL - ALLEGANY / NY			
6493 - WWTP SLUDGE 6493 *3 tickets and 3 transactions*	0.00	45.17	0
6805 - WWTP SLUDGE 6805 *4 tickets and 4 transactions*	0.00	69.15	0
ICSL - I/C SLUDGE *2 tickets and 2 transactions*	0.00	28.75	0
VWSL - 331 WWTP SLUDGE *47 tickets and 47 transactions*	0.00	650.80	0
ALL - ALLEGANY / NY *56 tickets and 56 transactions*	0.00	793.87	0
CAT - CATTARAUGUS / NY			
ICOS - 582 OLEAN WWTP SLUDGE *102 tickets and 102 transactions*	0.00	1,655.60	0
ICWN - 2021 I/C WWTP SLUDGE *7 tickets and 7 transactions*	0.00	126.41	0
CAT - CATTARAUGUS / NY *109 tickets and 109 transactions*	0.00	1,782.01	0
DUT - DUTCHESS / NY			
ICSL - I/C SLUDGE *117 tickets and 117 transactions*	0.00	4,061.96	0
DUT - DUTCHESS / NY *117 tickets and 117 transactions*	0.00	4,061.96	0
GEN - GENESEE / NY			
ICSL - I/C SLUDGE *5 tickets and 5 transactions*	0.00	201.61	0
GEN - GENESEE / NY *5 tickets and 5 transactions*	0.00	201.61	0
NAS - NASSAU			
ICSL - I/C SLUDGE *247 tickets and 247 transactions*	0.00	9,390.78	0

NAS - NASSAU	0.00	9,390.78	0
247 tickets and 247 transactions			
O - ORANGE / NY			
ICSL - I/C SLUDGE	0.00	3,889.64	0
111 tickets and 111 transactions			
O - ORANGE / NY	0.00	3,889.64	0
111 tickets and 111 transactions			
ONO - ONONDAGA / NY			
SL - SLUDGE	0.00	948.66	0
28 tickets and 28 transactions			
SS - SEWAGE SLUDGE			
ONO - ONONDAGA / NY	0.00	948.66	0
28 tickets and 28 transactions			
Q - QUEENS / NY			
SL - SLUDGE	0.00	141.10	0
4 tickets and 4 transactions			
Q - QUEENS / NY	0.00	141.10	0
4 tickets and 4 transactions			
SCH - SCHOHARIE / NY			
ICSL - I/C SLUDGE	0.00	648.96	0
19 tickets and 19 transactions			
SCH - SCHOHARIE / NY	0.00	648.96	0
19 tickets and 19 transactions			
SN - SUFFOLK (NY)			
ICSC - 244 SUFFOLK COUNTY SLUDGE	0.00	3,967.18	0
124 tickets and 124 transactions			
ICSL - I/C SLUDGE	0.00	47,073.14	0
1,543 tickets and 1,543 transactions			
SN - SUFFOLK (NY)	0.00	51,040.32	0
1,667 tickets and 1,667 transactions			
SUL - SULLIVAN / NY			
ICSL - I/C SLUDGE	0.00	511.93	0
13 tickets and 13 transactions			
SUL - SULLIVAN / NY	0.00	511.93	0
13 tickets and 13 transactions			

WES - WESTCHESTER / NY			
ICSL - I/C SLUDGE	0.00	4,791.37	0
129 tickets and 129 transactions			
WES - WESTCHESTER / NY	0.00	4,791.37	0
129 tickets and 129 transactions			
SS - SEWAGE SLUDGE	0.00	78,202.21	0
2,505 tickets and 2,505 transactions			
TIRES - MISC CHARGES			
ALL - ALLEGANY / NY			
WT - WEIGHT CHARGE ONLY	0.00	0.00	1
1 ticket and 1 transaction			
HAFE - HANDLING FEE	0.00	0.00	1
1 ticket and 1 transaction			
ALL - ALLEGANY / NY	0.00	0.00	2
2 tickets and 2 transactions			
BRON - BRONX / NY			
TIRES - MISC CHARGES			
BRON - BRONX / NY			
HAFE - HANDLING FEE	0.00	0.00	1
1 ticket and 1 transaction			
BRON - BRONX / NY	0.00	0.00	1
1 ticket and 1 transaction			
Q - QUEENS / NY			
HAFE - HANDLING FEE	0.00	0.00	1
1 ticket and 1 transaction			
Q - QUEENS / NY	0.00	0.00	1
1 ticket and 1 transaction			
SUL - SULLIVAN / NY			
HAFE - HANDLING FEE	0.00	0.00	1
1 ticket and 1 transaction			
SUL - SULLIVAN / NY	0.00	0.00	1
1 ticket and 1 transaction			
TIRES - MISC CHARGES	0.00	0.00	5
5 tickets and 5 transactions			
Report Grand Totals	0.00	506,675.90	4,810
21,646 tickets and 26,372 transactions			

End of Report

ATTACHMENT 4 – WASTE IN PLACE SUMMARY TABLE

Attachment 4 - Waste in Place Summary Table

Year Waste Placed	MSW (tons)[1]	Asbestos Waste (tons)	Ash (tons)	C&D Debris (tons)[2]	Industrial Waste with Drill Cuttings (tons)[3]	Oil/Gas Drilling Waste (tons)[3]	Petroleum Contaminated Soil (tons)	Sewage Treatment Plant Sludge (tons)	MSW/C&D Mixed (tons)	Total BUD Materials (tons)[4]	Total Waste in Landfill (tons)	Identify Landfill Section(s) Used
1998	50,403	2,424	655	17,171	9,290	0	372	236	43,076	0	123,627	Cell 1
1999	50,403	2,424	655	17,171	9,290	0	372	236	43,076	0	123,627	Cell 1
2000	50,403	2,424	655	17,171	9,290	0	372	236	43,076	32,046	155,673	Cell 1
2001	18,805	655	0	6,422	1,956	0	242	1,781	199,923	7,478	237,262	Cell 1
2002	18,437	0	0	6,004	7,560	0	89	2,037	190,833	45,908	270,868	Cell 1
2003	4,951	0	0	2,316	26,299	0	0	1,741	197,010	73,191	305,508	Cells 1 and 2
2004	170,313	0	0	17,178	16,402	0	0	21,939	0	21,777	247,609	Cells 1 and 2
2005	201,150	0	0	9,218	13,069	0	0	7,421	0	32,903	263,761	Cells 1 and 2
2006	212,848	0	0	942	4,603	0	0	12,680	0	27,428	258,501	Cells 1 and 2
2007	230,729	0	0	23,240	4,449	0	0	32,216	0	59,881	350,515	Cells 1, 2, and 3
2008	198,674	0	0	43,308	15,276	0	0	23,937	0	42,969	324,164	Cells 1, 2, and 3
2009	145,897	0	297	27,178	7,396	0	0	31,427	0	37,941	250,136	Cells 1, 2, and 3
2010	101,706	0	0	18,536	163,673	0	0	19,239	7,859	70,568	381,581	Cells 1, 2, and 3
2011	124,159	346	0	15,916	105,626	0	0	10,041	1,089	44,463	301,640	Cells 1, 2, and 3
2012	162,847	16,467	0	13,979	13,131	0	0	27,069	908	57,613	292,014	Cells 1, 2, 3, and 4
2013	139,189	15,572	0	11,462	15,258	0	0	24,672	0	44,505	250,658	Cells 1, 2, 3, and 4
2014	182,454	13,445	0	27,794	14,019	469	0	19,470	0	63,069	320,720	Cells 1, 2, 3, and 4
2015	203,332	17,854	0	35,546	6,553	1,355	0	24,634	0	43,954	333,228	Cells 1, 2, 3, and 4
2016[5]	203,530	8,782	77	71,505	10,623	14	0	36,379	0	64,721	395,631	Cells 1, 2, 3, and 4
2017	190,030	18,542	0	154,280	12,497	1,463	1,290	55,197	0	63,061	496,360	Cells 1, 2, 3, and 4
2018	201,342	12,312	0	104,245	8,623	0	15,811	71,018	51,290	44,385	509,024	Cells 1, 2, 3, 4, and 5
2019	258,890	7,164	0	62,426	6,871	0	3,333	78,202	48,103	41,685	506,676	Cells 1, 2, 3, 4, and 5
WIP Cumulative Total:[6]	3,120,492	118,411	2,339	703,008	481,754	3,301	21,881	501,808	826,243	919,546	6,698,783	

Notes: 1.) MSW stands for municipal solid waste.

2.) C&D stands for construction and demolition.

3.) Drill cuttings were included in "Industrial Waste" totals through 2013. Starting in 2014, drill cuttings were included under "Oil/Gas Drilling Waste."

4.) BUD stands for beneficial use determination.

5.) The "Total Waste in Landfill" amount in 2016 was previously presented as 401,311 tons in the previous annual reports. However, there was an error in the formula calculating this number, as a result, the correct number is 395,631 tons.

6.) WIP stands for waste in place.

ATTACHMENT 5 – ADDITIONAL PERMIT REPORTING REQUIREMENTS

Additional permit requirements for the 4th Quarter of 2019, as specified in Special Conditions #94 and #95 of the Operation Permit:

Special Condition #94 – Quarterly Report

Condition: Amounts of waste [mixed municipal waste, water and wastewater sludges, nonhazardous industrial waste and sludges, ash(es), construction and demolition debris, asbestos, compost, yard waste and contaminated soil] received from each New York State county on a county by county basis, from the United States on a state by state basis and from outside the country on a nation by nation basis.

Hyland: See Section 6 (Solid Waste Disposed) and Attachments 3 and 9.

Condition: Report on receipt of unauthorized wastes received during the quarter (see Solid Waste Management Permit Condition 42 of this permit).

Hyland: See Section 9 (Unauthorized Solid Waste) and Attachment 6. There was no unauthorized waste received in 2019.

Condition: The amount of leachate collected and hauled off-site on a daily basis and the disposal location. The daily logs of leachate level in the leachate storage tank shall be provided as well.

Hyland: Attachment 7 includes daily leachate levels in each of the surface impoundments. It includes the leachate disposed and leachate generated on a daily basis. In addition, the leachate disposal location and the date of disposal are included for the 4th Quarter of 2019. Disposal locations include Wellsville, Jamestown, Belmont, or Town of Caneadea Wastewater Treatment Plant (WWTP).

Condition: The amounts of liquid collected from the secondary collection system on a daily basis.

Hyland: Attachment 7 includes the amount of leachate collected for each secondary system on a daily basis.

Condition: The monthly Leakage Rate for the secondary collection system of each cell or subcell of the landfill.

Hyland: Attachment 7 includes the monthly leakage rate from each secondary system.

Condition: The date when liquid is detected in any leak detection location, including the amount of liquid removed from each location. This includes all leak detection locations including but not limited to those identified on the most recent approved weekly leachate inspection log.

Hyland: See Attachment 8. There was some accumulated condensate in the manholes, but no leachate was detected during 2019.

Condition: The amount of ADC received during the quarter (on a monthly basis) and the amount of ADC stockpiled on-site at the end of the quarter.

Hyland: Attachment 10 includes the amount of ADC received during the 4th Quarter of 2019. There was no ADC material stockpiled at the end of the 4th Quarter of 2019.

Condition: Results from the monitoring of the gas migration monitoring wells around the perimeter of the landfill.

Hyland: See Attachment 2.

Condition: The analytical results for any condensate samples collected during the quarter being reported.

Hyland: See Attachment 2.

Condition: The amount of condensate collected, the disposal location and the number of gas extraction wells/laterals in operation.

Hyland: Hyland collects condensate in the leachate collection system. In accordance with NYSDEC approved design plans, the condensate is not metered. All condensate is mixed with primary leachate and treated off-site at the Wellsville, Jamestown, Belmont, or Town of Caneadea WWTP. There are currently 53 gas wells and 39 horizontal gas collectors installed/operating.

Condition: The amount of groundwater removed from each groundwater suppression system on a weekly basis. After Cell 5 is constructed, a flow rate shall be determined once per week. Weekly measurements shall occur during the operational life of the landfill and not during post-closure.

Hyland: Weekly flow measurements (Cells 3, 4, and 5) for 2019 are provided in Attachment 19. Hyland is no longer required to pump groundwater from beneath Cells 1 and 2.

Condition: The amount of BUD material (drainage/road) received during the quarter (on a monthly basis) and the amount of BUD material (drainage/road) stockpiled on-site at the end of the quarter.

Hyland: Attachment 11 includes the amount of BUD received during the 4th Quarter of 2019 and Attachment 12 includes the amount of BUD Solidification Bulking Agent received during the 4th Quarter of 2019. There was 150 cubic yards of BUD material stockpiled at the end of the 4th quarter.

Condition: Results from the perched leachate evaluation during every other quarter (see Solid Waste Management Permit Condition 64 of this permit).

Hyland: Per the April 20, 2017 letter from Peter Grasso, NYSDEC granted conditional discontinuance of the Perched Leachate Evaluation required in Permit Condition 64, provided that a report is submitted as an attachment to the Quarterly Report documenting the quantity of leachate pumped from each vertical gas well. During the 4th Quarter of 2019, no leachate was pumped from the vertical gas wells.

Special Condition #95 – Annual Report

Condition: Amounts of waste [mixed municipal waste, water and wastewater sludges, nonhazardous industrial waste and sludges, ash(es), construction and demolition debris, asbestos, compost, yard waste and contaminated soil] received from each New York State county, on a county by county basis from the United States, on a state by state basis and from outside the country, on a nation by nation basis.

Hyland: See Section 6 (Solid Waste Disposed) and Attachments 3 and 9.

Condition: Copies of current and up-to-date contracts with a minimum of two wastewater treatment facilities for the disposal of leachate for the up-coming year. In addition, copies of current and up-to-date contracts with the back-up hauler for the upcoming year shall be provided.

Hyland: See Attachments 13 and 14.

Condition: Any changes to the Fill Progression Plan or modifications to the landfill.

Hyland: No changes.

Condition: An updated cost estimate for closure/post-closure activities to reflect inflation and/or any changes that may impact closure or post-closure.

Hyland: This information was previously submitted to Region 9 of the NYSDEC and no changes are required.

Condition: An updated topographic map (based on Fall conditions) of the site. Included with topographic map shall be a discussion on the amount of waste received, the remaining volume/life of the site and a soil balance for the site. The soil balance shall include: the amount of soil required for cover, closure and other activities; the amount of soil remaining in the permitted borrow area; and the amount of soil that needs to be imported.

Hyland: See Attachment 15.

Condition: Unusual events or accidents at the landfill and responses taken by landfill personnel.

Hyland: No unusual events or accidents occurred at Hyland Landfill during 2019.

Condition: Any changes in water quality which have occurred throughout the report year and a summary of the water quality information.

Hyland: See Attachment 2.

Condition: Any changes from the approved plans, reports and specifications or permit, along with a justification for the change.

Hyland: No changes.

Condition: Summary report for the active landfill gas collection system including the amount of gas burned and condensate collected.

Hyland: See Section 11 (Landfill Gas).

Condition: A detailed plan covering the next three years of operation and construction activities. The plan shall indicate which areas will be constructed, operate and/or closed. A schedule for all activities shall be included.

Hyland: Hyland plans to fill in Cells 1, 2, 3, and 4 (at the top and center of landfill) and waste placement will continue in Cells 5A and 5B. No construction is planned for 2020 and construction of the third phase of Cell 5 (Cell 5C) is scheduled for 2021.

Condition: A summary of the breakout inspections completed throughout the year and the remedial efforts to repair them.

Hyland: Breakout inspections were completed at the beginning of each operating day. Inspection sheets for each breakout were completed and filed in the landfill office. Upon identification of a breakout, an action plan was immediately put into place. Repairs were made to each breakout, which included one or a combination of the following actions; full excavation of the breakout area, adding additional clay, installing drainage pipes, and compacting the intermediate cover soils. See Attachment 16 for a table detailing the breakout inspection information; including, the number and location of breakouts and the action taken to resolve the breakouts.

Condition: Results of the leachate monitoring integrity check.

Hyland: On December 9, 2019, a Pro-Control System Integrity Evaluation was completed of the primary and secondary leachate management systems at Hyland Landfill. The Pro-Control System Integrity Evaluation was completed using forms that were previously submitted to the New York State Department of Environmental Conservation for review in November 2014. The system evaluation consisted of verification that both the visual alarm indicators and the alarm messages were properly functioning. As part of the evaluation, each primary and secondary pump was activated to verify that the pump and corresponding flow meters were functional. In addition, alarm conditions were activated to verify that the alarm lights on the various control panels activated correctly, and that alarm messages were sent to facility personnel. The results of the system evaluation confirmed the integrity of the leachate management systems, successfully demonstrating proper operation of the pumping systems and alarm conditions. See Attachment 17 for the completed evaluation forms.

ATTACHMENT 6 – UNAUTHORIZED WASTE RECEIVED

There was no unauthorized waste received in 2019.

ATTACHMENT 7 – PRIMARY/SECONDARY LEACHATE COLLECTION DATA

Hyland Facility Associates **Daily Leachate Tracking January 2019**

Bay 1 (North Impoundment)

Date	Reading from Impoundment (ft)	North Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
12/31/18	5.8	67,875	483,386	18,128
01/01/19	6.4	92,248	459,013	24,373
01/02/19	6.8	109,908	441,353	17,660
01/03/19	6.3	88,007	463,254	-21,900
01/04/19	5.8	67,875	483,386	-20,132
01/05/19	5.2	46,369	504,892	-21,506
01/06/19	5.7	64,085	487,176	17,715
01/07/19	6.2	83,836	467,425	19,752
01/08/19	5.8	67,875	483,386	-15,961
01/09/19	5.9	71,748	479,513	3,873
01/10/19	5.5	56,751	494,510	-14,997
01/11/19	5.5	56,751	494,510	0
01/12/19	5.4	53,208	498,053	-3,543
01/13/19	5.9	71,748	479,513	18,540
01/14/19	6.3	88,007	463,254	16,259
01/15/19	5.7	64,085	487,176	-23,923
01/16/19	5.6	60,377	490,884	-3,708
01/17/19	5.3	49,747	501,514	-10,629
01/18/19	5.1	43,074	508,187	-6,674
01/19/19	4.8	33,633	517,628	-9,441
01/20/19	5.4	53,208	498,053	19,575
01/21/19	5.9	71,748	479,513	18,540
01/22/19	5.7	64,085	487,176	-7,664
01/23/19	5.5	56,751	494,510	-7,334
01/24/19	5.5	56,751	494,510	0
01/25/19	5.2	46,369	504,892	-10,382
01/26/19	5.0	39,861	511,400	-6,509
01/27/19	5.5	56,751	494,510	16,890
01/28/19	5.9	71,748	479,513	14,997
01/29/19	5.2	46,369	504,892	-25,379
01/30/19	5.1	43,074	508,187	-3,296
01/31/19	5.1	43,074	508,187	0

Bay 2 (South Impoundment)

Date	Reading from Impoundment (ft)	South Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
12/31/18	4.9	37,819	519,195	0
01/01/19	4.6	28,203	528,811	-9,616
01/02/19	4.9	37,819	519,195	9,616
01/03/19	4.9	37,819	519,195	0
01/04/19	4.9	37,819	519,195	0
01/05/19	5.0	41,144	515,870	3,325
01/06/19	5.0	41,144	515,870	0
01/07/19	5.0	41,144	515,870	0
01/08/19	5.1	44,533	512,481	3,389
01/09/19	5.2	47,988	509,025	3,456
01/10/19	5.2	47,988	509,025	0
01/11/19	5.3	51,511	505,503	3,523
01/12/19	5.3	51,511	505,503	0
01/13/19	5.3	51,511	505,503	0
01/14/19	5.3	51,511	505,503	0
01/15/19	5.3	51,511	505,503	0
01/16/19	5.3	51,511	505,503	0
01/17/19	5.4	55,101	501,913	3,590
01/18/19	5.4	55,101	501,913	0
01/19/19	5.4	55,101	501,913	0
01/20/19	5.5	58,757	498,257	3,657
01/21/19	5.5	58,757	498,257	0
01/22/19	5.5	58,757	498,257	0
01/23/19	5.5	58,757	498,257	0
01/24/19	5.7	66,271	490,743	7,514
01/25/19	5.8	70,129	486,885	3,857
01/26/19	5.8	70,129	486,885	0
01/27/19	5.8	70,129	486,885	0
01/28/19	5.8	70,129	486,885	0
01/29/19	5.9	74,053	482,961	3,924
01/30/19	5.9	74,053	482,961	0
01/31/19	5.9	74,053	482,961	0

Total Leachate

Total Change in Leachate Volume (gal)	Disposed (gal)	Total Leachate Generation (gal)
18,128	57,859	75,987
14,757	0	14,757
27,276	66,075	93,351
-21,900	73,265	51,365
-20,132	65,842	45,710
-18,181	15,037	-3,144
17,715	0	17,715
19,752	51,240	70,992
-12,573	58,531	45,958
7,329	72,748	80,077
-14,997	36,438	21,441
3,523	36,559	40,082
-3,543	0	-3,543
18,540	0	18,540
16,259	65,656	81,915
-23,923	44,024	20,101
-3,708	50,780	47,072
-7,040	51,363	44,323
-6,674	43,721	37,047
-9,441	0	-9,441
23,232	0	23,232
18,540	36,257	54,797
-7,664	29,044	21,380
-7,334	58,439	51,105
7,514	65,729	73,243
-6,524	51,663	45,139
-6,509	0	-6,509
16,890	0	16,890
14,997	80,313	95,310
-21,454	37,251	15,797
-3,296	28,372	25,076
0	21,446	21,446

Total Leachate Collected	**1,151,226**
Secondary Leachate Collected	4,992
Total Primary Collected	1,146,234
Total Gallons Hauled	1,139,793

Hyland Facility Associates
Angelica, NY

Daily Leachate Tracking January 2019

Daily Leachate Tracking January 2019

Date	Secondary Liquid Cell 1 A/B Meter Reading	Secondary Liquid Cell 1 A/B Daily Flow	Secondary Liquid Cell 1 C/D Meter Reading	Secondary Liquid Cell 1 C/D Daily Flow	Secondary Liquid Cell 2 E/F Meter Reading	Secondary Liquid Cell 2 E/F Daily Flow	Secondary Liquid Cell 2 G/H Meter Reading	Secondary Liquid Cell 2 G/H Daily Flow	Secondary Liquid Cell 3 Totalize Reading gals	Secondary Liquid Cell 3 Daily Flow gals	Secondary Liquid Cell 4 Totalizer Reading gals	Secondary Liquid Cell 4 Daily Flow gals	Secondary Liquid Cell 5A Totalizer Reading gals	Secondary Liquid Cell 5A Daily Flow gals	North Impound-ment Bay Totalizer Reading gals	North Impound-ment Bay Daily Flow gals	South Impound-ment Bay Totalizer Reading gals	South Impound-ment Bay Daily Flow gals
12/31/18	629361	0	90996	0	323018	0	195677	0	8032198	0	353334	0	17333	0	8571843	0	4232611	0
01/01/19	629361	0	90996	0	323018	0	195677	0	8032198	0	353334	0	18046	713	8571843	0	4232611	0
01/02/19	629361	0	91064	68	323018	0	195677	0	8032198	0	353656	322	18046	0	8571843	0	4232611	0
01/03/19	629421	60	91064	0	323018	0	195677	0	8032486	288	353656	0	18046	0	8571843	0	4232611	0
01/04/19	629421	0	91064	0	323018	0	195708	31	8032501	15	353656	0	18046	0	8571843	0	4232611	0
01/05/19	629422	1	91066	2	323027	9	195709	1	8032502	1	353663	7	18874	828	8571843	0	4232611	0
01/06/19	629422	0	91066	0	323027	0	195709	0	8032502	0	353663	0	18874	0	8571843	0	4232611	0
01/07/19	629422	0	91066	0	323027	0	195738	29	8032502	0	353663	0	18874	0	8571843	0	4232611	0
01/08/19	629422	0	91066	0	323027	0	195738	0	8032502	0	353663	0	18874	0	8571843	0	4232611	0
01/09/19	629422	0	91066	0	323027	0	195738	0	8032502	0	353663	0	18874	0	8571843	0	4232611	0
01/10/19	629422	0	91066	0	323027	0	195738	0	8032502	0	353663	0	18874	0	8571843	0	4232611	0
01/11/19	629422	0	91066	0	323027	0	195766	28	8032502	0	353663	0	18874	0	8571843	0	4232611	0
01/12/19	629423	1	91067	1	323035	8	195767	1	8032504	2	353675	12	18874	0	8571843	0	4232611	0
01/13/19	629423	0	91067	0	323035	0	195767	0	8032819	315	353675	0	18874	0	8571843	0	4232611	0
01/14/19	629423	0	91067	0	323035	0	195767	0	8032819	0	353675	0	18874	0	8571843	0	4232611	0
01/15/19	629423	0	91067	0	323225	190	195767	0	8032819	0	353675	0	18874	0	8571843	0	4232611	0
01/16/19	629482	59	91135	68	323225	0	195767	0	8032819	0	353675	0	18874	0	8571843	0	4232611	0
01/17/19	629482	0	91135	0	323225	0	195797	30	8032819	0	353675	0	19702	828	8571843	0	4232611	0
01/18/19	629482	0	91135	0	323225	0	195797	0	8032819	0	353675	0	19965	263	8571843	0	4232611	0
01/19/19	629483	1	91135	0	323233	8	195797	0	8032819	0	353675	0	19965	0	8571843	0	4232611	0
01/20/19	629483	0	91135	0	323233	0	195797	0	8032819	0	353675	0	19965	0	8571843	0	4232611	0
01/21/19	629483	0	91135	0	323233	0	195826	29	8032819	0	353675	0	19965	0	8571843	0	4232611	0
01/22/19	629483	0	91135	0	323233	0	195826	0	8032819	0	353675	0	19965	0	8571843	0	4232611	0
01/23/19	629483	0	91135	0	323233	0	195826	0	8032819	0	353675	0	19965	0	8571843	0	4232611	0
01/24/19	629483	0	91135	0	323233	0	195826	0	8032819	0	353675	0	19965	0	8571843	0	4232611	0
01/25/19	629483	0	91135	0	323233	0	195826	0	8032819	0	354004	329	19966	1	8571843	0	4232611	0
01/26/19	629484	1	91136	1	323241	8	195855	29	8032821	2	354010	6	19966	0	8571843	0	4232611	0
01/27/19	629484	0	91136	0	323241	0	195855	0	8032821	0	354010	0	19966	0	8571843	0	4232611	0
01/28/19	629484	0	91136	0	323241	0	195855	0	8033122	301	354010	0	19966	0	8571843	0	4232611	0
01/29/19	629484	0	91136	0	323241	0	195855	0	8033122	0	354010	0	19966	0	8571843	0	4232611	0
01/30/19	629484	0	91136	0	323241	0	195855	0	8033122	0	354010	0	19966	0	8571843	0	4232611	0
01/31/19	629484	0	91205	69	323241	0	195881	26	8033122	0	354010	0	19966	0	8571843	0	4232611	0
	A/B ALR:	**0.4**	**C/D ALR:**	**0.8**	**E/F ALR:**	**1.0**	**G/H ALR:**	**1.5**	**Cell 3 ALR**	**3.1**	**Cell 4 ALR**	**2.3**	**Cell 5A ALR**	**10.0**	**N IMP Sec**	**0.00**	**S IMP Sec**	**0.00**
	Total A/B:	123.0	*Total C/D:*	209.0	*Total: E/F:*	223.0	*Total G/H:*	204.0	*Total Cell 3:*	924.0	*Total Cell 4:*	676.0	*Total Cell 5A:*	2633	*Total North:*	0	*Total South:*	0

Secondary Total: 4992

Hyland Facility Associates **Daily Leachate Tracking Febuary 2019**

Bay 1 (North Impoundment)

Date	Reading from Impoundment (ft)	North Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
01/31/19	5.1	43,074	508,187	0
02/01/19	5.2	46,369	504,892	3,296
02/02/19	4.7	30,606	520,655	-15,763
02/03/19	5.2	46,369	504,892	15,763
02/04/19	5.7	64,085	487,176	17,715
02/05/19	5.4	53,208	498,053	-10,877
02/06/19	4.7	30,606	520,655	-22,602
02/07/19	4.6	27,637	523,624	-2,969
02/08/19	4.3	19,079	532,182	-8,558
02/09/19	3.8	11,912	539,349	-7,167
02/10/19	4.3	19,079	532,182	7,167
02/11/19	4.8	33,633	517,628	14,554
02/12/19	3.9	13,294	537,967	-20,339
02/13/19	3.9	13,294	537,967	0
02/14/19	3.6	9,223	542,038	-4,071
02/15/19	3.1	3,564	547,697	-5,659
02/16/19	2.7	2,507	548,754	-1,057
02/17/19	2.9	2,934	548,327	427
02/18/19	2.9	2,934	548,327	0
02/19/19	2.9	2,934	548,327	0
02/20/19	2.9	2,934	548,327	0
02/21/19	3.0	3,162	548,099	228
02/22/19	3.0	3,162	548,099	0
02/23/19	3.0	3,162	548,099	0
02/24/19	3.0	3,162	548,099	0
02/25/19	3.1	3,564	547,697	402
02/26/19	3.1	3,564	547,697	0
02/27/19	3.1	3,564	547,697	0
02/28/19	3.2	4,303	546,958	739

Bay 2 (South Impoundment)

Date	Reading from Impoundment (ft)	South Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
01/31/19	5.9	74,053	482,961	0
02/01/19	5.9	74,053	482,961	0
02/02/19	5.9	74,053	482,961	0
02/03/19	5.9	74,053	482,961	0
02/04/19	5.9	74,053	482,961	0
02/05/19	6.0	78,045	478,969	3,991
02/06/19	6.1	82,105	474,909	4,061
02/07/19	6.2	86,237	470,777	4,132
02/08/19	6.3	90,440	466,574	4,203
02/09/19	6.3	90,440	466,574	0
02/10/19	6.3	90,440	466,574	0
02/11/19	6.3	90,440	466,574	0
02/12/19	6.3	90,440	466,574	0
02/13/19	6.4	94,714	462,300	4,274
02/14/19	6.4	94,714	462,300	0
02/15/19	6.4	94,714	462,300	0
02/16/19	6.3	90,440	466,574	-4,274
02/17/19	6.7	107,963	449,051	17,523
02/18/19	7.0	121,852	435,162	13,890
02/19/19	6.9	117,151	439,863	-4,701
02/20/19	6.4	94,714	462,300	-22,438
02/21/19	6.1	82,105	474,909	-12,609
02/22/19	5.6	62,481	494,533	-19,624
02/23/19	5.3	51,511	505,503	-10,970
02/24/19	5.8	70,129	486,885	18,618
02/25/19	6.4	94,714	462,300	24,585
02/26/19	6.8	112,521	444,492	17,808
02/27/19	6.2	86,237	470,777	-26,285
02/28/19	6.4	94,714	462,300	8,477

Total Leachate

Total Change in Leachate Volume (gal)	Disposed (gal)	Total Leachate Generation (gal)
0	21,446	21,446
3,296	58,649	61,945
-15,763	0	-15,763
15,763	0	15,763
17,715	59,243	76,958
-6,885	66,095	59,210
-18,541	43,751	25,210
1,163	59,155	60,318
-4,356	58,465	54,109
-7,167	0	-7,167
7,167	0	7,167
14,554	80,159	94,713
-20,339	29,528	9,189
4,274	50,513	54,787
-4,071	50,771	46,700
-5,659	57,775	52,116
-5,331	0	-5,331
17,950	0	17,950
13,890	51,684	65,574
-4,701	43,990	39,289
-22,438	49,826	27,388
-12,380	58,648	46,268
-19,624	43,519	23,895
-10,970	0	-10,970
18,618	0	18,618
24,987	0	24,987
17,808	58,233	76,041
-26,285	21,513	-4,772
9,216	51,418	60,634

Total Leachate Collected	**974,824**
Secondary Leachate Collected	2,377
Total Primary Collected	972,447
Total Gallons Hauled	992,935

Hyland Facility Associates
Angelica, NY

Daily Leachate Tracking February 2019

Daily Leachate Tracking February 2019

Date	Secondary Liquid Cell 1 A/B Meter Reading	Secondary Liquid Cell 1 A/B Daily Flow	Secondary Liquid Cell 1 C/D Meter Reading	Secondary Liquid Cell 1 C/D Daily Flow	Secondary Liquid Cell 2 E/F Meter Reading	Secondary Liquid Cell 2 E/F Daily Flow	Secondary Liquid Cell 2 G/H Meter Reading	Secondary Liquid Cell 2 G/H Daily Flow	Secondary Liquid Cell 3 Totalize Reading gals	Secondary Liquid Cell 3 Daily Flow gals	Secondary Liquid Cell 4 Totalizer Reading gals	Secondary Liquid Cell 4 Daily Flow gals	Secondary Liquid Cell 5A Totalizer Reading gals	Secondary Liquid Cell 5A Daily Flow gals	North Impound-ment Bay Totalizer Reading gals	North Impound-ment Bay Daily Flow gals	South Impound ment Bay Totalizer Reading gals	South Impound-ment Bay Daily Flow gals
01/31/19	629484	0	91205	69	323241	0	195881	26	8033122	0	354010	0	19966	0	8571843	0	4232611	0
02/01/19	629543	59	91205	0	323241	0	195881	0	8033122	0	354010	0	19966	0	8571843	0	4232611	0
02/02/19	629544	1	91206	1	323250	9	195881	0	8033123	1	354015	5	19966	0	8571843	0	4232611	0
02/03/19	629544	0	91206	0	323250	0	195881	0	8033123	0	354015	0	19966	0	8571843	0	4232611	0
02/04/19	629544	0	91206	0	323250	0	195881	0	8033123	0	354015	0	19966	0	8571843	0	4232611	0
02/05/19	629544	0	91206	0	323250	0	195890	9	8033123	0	354038	23	19980	14	8571843	0	4232611	0
02/06/19	629557	13	91214	8	323260	10	195890	0	8033123	0	354038	0	19980	0	8571843	0	4232611	0
02/07/19	629557	0	91214	0	323260	0	195890	0	8033212	89	354038	0	19980	0	8571843	0	4232611	0
02/08/19	629557	0	91214	0	323368	108	195890	0	8033212	0	354038	0	19980	0	8571843	0	4232611	0
02/09/19	629559	2	91216	2	323376	8	195922	32	8033214	2	354044	6	19980	0	8571843	0	4232611	0
02/10/19	629559	0	91216	0	323376	0	195945	23	8033214	0	354044	0	19980	0	8571843	0	4232611	0
02/11/19	629559	0	91216	0	323376	0	195945	0	8033214	0	354044	0	19980	0	8571843	0	4232611	0
02/12/19	629559	0	91216	0	323376	0	195945	0	8033214	0	354044	0	20694	714	8571843	0	4232611	0
02/13/19	629559	0	91216	0	323376	0	195945	0	8033516	302	354044	0	20694	0	8571843	0	4232611	0
02/14/19	629559	0	91216	0	323376	0	195945	0	8033516	0	354044	0	20694	0	8571843	0	4232611	0
02/15/19	629559	0	91216	0	323376	0	195945	0	8033516	0	354044	0	20694	0	8571843	0	4232611	0
02/16/19	629559	0	91218	2	323384	8	195947	2	8033518	2	354049	5	20694	0	8571843	0	4232611	0
02/17/19	629559	0	91218	0	323384	0	195947	0	8033518	0	354049	0	20694	0	8571843	0	4232611	0
02/18/19	629559	0	91218	0	323384	0	195947	0	8033518	0	354049	0	20694	0	8571843	0	4232611	0
02/19/19	629559	0	91287	69	323384	0	196002	55	8033518	0	354049	0	20694	0	8571843	0	4232611	0
02/20/19	629559	0	91287	0	323384	0	196002	0	8033518	0	354049	0	20694	0	8571843	0	4232611	0
02/21/19	629559	0	91287	0	323384	0	196002	0	8033518	0	354049	0	20694	0	8571843	0	4232611	0
02/22/19	629559	0	91287	0	323384	0	196002	0	8033518	0	354049	0	20694	0	8571843	0	4232611	0
02/23/19	629559	0	91287	0	323384	0	196002	0	8033518	0	354049	0	20694	0	8571843	0	4232611	0
02/24/19	629620	61	91288	1	323393	9	196003	1	8033519	1	354056	7	20694	0	8571843	0	4232611	0
02/25/19	629620	0	91288	0	323511	118	196003	0	8033779	260	354360	304	20694	0	8571843	0	4232611	0
02/26/19	629620	0	91288	0	323511	0	196032	29	8033779	0	354360	0	20696	2	8571843	0	4232611	0
02/27/19	629620	0	91288	0	323511	0	196032	0	8033779	0	354360	0	20696	0	8571843	0	4232611	0
02/28/19	629620	0	91288	0	323511	0	196032	0	8033779	0	354360	0	20696	0	8571843	0	4232611	0
	A/B ALR:	**0.5**	**C/D ALR:**	**0.3**	**E/F ALR:**	**1.4**	**G/H ALR:**	**1.3**	**Cell 3 ALR**	**2.4**	**Cell 4 ALR**	**1.3**	**Cell 5A ALR**	**3.1**	**N IMP Sec**	**0.00**	**S IMP Sec**	**0.00**
	Total A/B:	136.0	*Total C/D:*	83	*Total: E/F:*	270	*Total G/H:*	151	*Total Cell 3:*	657	*Total Cell 4:*	350	*Total Cell 5A:*	730	*Total North:*	0	*Total South:*	0

Secondary Total: 2377

Hyland Facility Associates **Daily Leachate Tracking March 2019**

Bay 1 (North Impoundment)

Date	Reading from Impoundment (ft)	North Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
02/28/19	3.2	4,303	546,958	739
03/01/19	3.2	4,303	546,958	0
03/02/19	3.2	4,303	546,958	0
03/03/19	3.2	4,303	546,958	0
03/04/19	3.2	4,303	546,958	0
03/05/19	3.2	4,303	546,958	0
03/06/19	3.2	4,303	546,958	0
03/07/19	3.2	4,303	546,958	0
03/08/19	3.2	4,303	546,958	0
03/09/19	3.2	4,303	546,958	0
03/10/19	3.3	5,378	545,883	1,076
03/11/19	3.4	6,635	544,626	1,257
03/12/19	3.4	6,635	544,626	0
03/13/19	3.4	6,635	544,626	0
03/14/19	3.5	7,917	543,344	1,282
03/15/19	3.5	7,917	543,344	0
03/16/19	3.5	7,917	543,344	0
03/17/19	3.5	7,917	543,344	0
03/18/19	3.5	7,917	543,344	0
03/19/19	3.5	7,917	543,344	0
03/20/19	3.5	7,917	543,344	0
03/21/19	3.5	7,917	543,344	0
03/22/19	3.5	7,917	543,344	0
03/23/19	3.5	7,917	543,344	0
03/24/19	3.5	7,917	543,344	0
03/25/19	3.5	7,917	543,344	0
03/26/19	3.5	7,917	543,344	0
03/27/19	3.5	7,917	543,344	0
03/28/19	3.5	7,917	543,344	0
03/29/19	3.5	7,917	543,344	0
03/30/19	3.5	7,917	543,344	0
03/31/19	3.6	9,223	542,038	1,307

Bay 2 (South Impoundment)

Date	Reading from Impoundment (ft)	South Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
02/28/19	6.4	94,714	462,300	8,477
03/01/19	6.0	78,045	478,969	-16,669
03/02/19	5.6	62,481	494,533	-15,564
03/03/19	6.0	78,045	478,969	15,564
03/04/19	6.4	94,714	462,300	16,669
03/05/19	6.0	78,045	478,969	-16,669
03/06/19	5.7	66,271	490,743	-11,773
03/07/19	5.4	55,101	501,913	-11,171
03/08/19	5.3	51,511	505,503	-3,590
03/09/19	4.9	37,819	519,195	-13,692
03/10/19	5.4	55,101	501,913	17,282
03/11/19	5.9	74,053	482,961	18,953
03/12/19	5.7	66,271	490,743	-7,782
03/13/19	5.4	55,101	501,913	-11,171
03/14/19	6.6	103,475	453,539	48,375
03/15/19	5.0	41,144	515,870	-62,331
03/16/19	4.8	34,554	522,460	-6,591
03/17/19	5.3	51,511	505,503	16,957
03/18/19	5.8	70,129	486,885	18,618
03/19/19	5.4	55,101	501,913	-15,028
03/20/19	5.0	41,144	515,870	-13,956
03/21/19	4.8	34,554	522,460	-6,591
03/22/19	4.4	22,091	534,923	-12,463
03/23/19	4.1	16,171	540,843	-5,920
03/24/19	4.6	28,203	528,811	12,032
03/25/19	5.1	44,533	512,481	16,330
03/26/19	4.6	28,203	528,811	-16,330
03/27/19	4.1	16,171	540,843	-12,032
03/28/19	3.8	11,936	545,078	-4,235
03/29/19	3.5	7,926	549,088	-4,010
03/30/19	4.1	16,171	540,843	8,245
03/31/19	4.6	28,203	528,811	12,032

Total Change in Leachate Volume (gal)	Disposed (gal)	Total Leachate Generation (gal)
9,216	51,418	60,634
-16,669	58,482	41,813
-15,564	0	-15,564
15,564	0	15,564
16,669	51,059	67,728
-16,669	43,734	27,065
-11,773	49,820	38,047
-11,171	28,908	17,737
-3,590	51,042	47,452
-13,692	0	-13,692
18,357	0	18,357
20,209	51,018	71,227
-7,782	51,221	43,439
-11,171	42,088	30,917
49,656	51,428	101,084
-62,331	43,955	-18,376
-6,591	0	-6,591
16,957	0	16,957
18,618	51,295	69,913
-15,028	51,278	36,250
-13,956	42,857	28,901
-6,591	51,159	44,568
-12,463	44,060	31,597
-5,920	0	-5,920
12,032	0	12,032
16,330	51,126	67,456
-16,330	51,023	34,693
-12,032	42,290	30,258
-4,235	43,655	39,420
-4,010	0	-4,010
8,245	0	8,245
13,338	0	13,338

Total Leachate Collected	**889,908**
Secondary Leachate Collected	3,044
Total Primary Collected	886,864
Total Gallons Hauled	951,498

Hyland Facility Associates
Angelica, NY

Daily Leachate Tracking March 2019

Daily Leachate Tracking March 2019

Date	Secondary Liquid Cell 1 A/B Meter Reading	Secondary Liquid Cell 1 A/B Daily Flow	Secondary Liquid Cell 1 C/D Meter Reading	Secondary Liquid Cell 1 C/D Daily Flow	Secondary Liquid Cell 2 E/F Meter Reading	Secondary Liquid Cell 2 E/F Daily Flow	Secondary Liquid Cell 2 G/H Meter Reading	Secondary Liquid Cell 2 G/H Daily Flow	Secondary Liquid Cell 3 Totalize Reading gals	Secondary Liquid Cell 3 Daily Flow gals	Secondary Liquid Cell 4 Totalizer Reading gals	Secondary Liquid Cell 4 Daily Flow gals	Secondary Liquid Cell 5A Totalizer Reading gals	Secondary Liquid Cell 5A Daily Flow gals	North Impound-ment Bay Totalizer Reading gals	North Impound-ment Bay Daily Flow gals	South Impound-ment Bay Totalizer Reading gals	South Impound-ment Bay Daily Flow gals
02/28/19	629620	0	91288	0	323511	0	196032	0	8033779	0	354360	0	20696	0	8571843	0	4232611	0
03/01/19	629620	0	91289	1	323520	9	196033	1	8033781	2	354365	5	20696	0	8571843	0	4232611	0
03/02/19	629620	0	91289	0	323520	0	196033	0	8033781	0	354365	0	20696	0	8571843	0	4232611	0
03/03/19	629620	0	91289	0	323520	0	196064	31	8033781	0	354365	0	20696	0	8571843	0	4232611	0
03/04/19	629620	0	91289	0	323520	0	196064	0	8033781	0	354365	0	20696	0	8571843	0	4232611	0
03/05/19	629620	0	91289	0	323520	0	196064	0	8033781	0	354365	0	20696	0	8571843	0	4232611	0
03/06/19	629620	0	91289	0	323520	0	196094	30	8033781	0	354365	0	21539	843	8571843	0	4232611	0
03/07/19	629620	0	91289	0	323520	0	196094	0	8034094	313	354365	0	21539	0	8571843	0	4232611	0
03/08/19	629622	2	91290	1	323529	9	196120	26	8034095	1	354372	7	21539	0	8571843	0	4232611	0
03/09/19	629622	0	91290	0	323529	0	196120	0	8034095	0	354372	0	21539	0	8571843	0	4232611	0
03/10/19	629622	0	91358	68	323529	0	196120	0	8034095	0	354372	0	21539	0	8571843	0	4232611	0
03/11/19	629622	0	91358	0	323529	0	196120	0	8034095	0	354372	0	21539	0	8571843	0	4232611	0
03/12/19	629622	0	91358	0	323529	0	196120	0	8034095	0	354372	0	21539	0	8571843	0	4232611	0
03/13/19	629622	0	91358	0	323529	0	196120	0	8034095	0	354372	0	21539	0	8571843	0	4232611	0
03/14/19	629622	0	91358	0	323529	0	196120	0	8034095	0	354372	0	21539	0	8571843	0	4232611	0
03/15/19	629622	0	91358	0	323529	0	196120	0	8034389	294	354372	0	21539	0	8571843	0	4232611	0
03/16/19	629622	0	91358	0	323529	0	196151	31	8034389	0	354372	0	21539	0	8571843	0	4232611	0
03/17/19	629622	0	91358	0	323529	0	196151	0	8034389	0	354372	0	21539	0	8571843	0	4232611	0
03/18/19	629622	0	91358	0	323529	0	196180	29	8034389	0	354372	0	21539	0	8571843	0	4232611	0
03/19/19	629682	60	91358	0	323529	0	196180	0	8034389	0	354372	0	21539	0	8571843	0	4232611	0
03/20/19	629682	0	91358	0	323529	0	196180	0	8034389	0	354372	0	21539	0	8571843	0	4232611	0
03/21/19	629682	0	91358	0	323529	0	196180	0	8034389	0	354372	0	21539	0	8571843	0	4232611	0
03/22/19	629682	0	91358	0	323698	169	196180	0	8034389	0	354372	0	21539	0	8571843	0	4232611	0
03/23/19	629682	0	91358	0	323698	0	196210	30	8034389	0	354372	0	21539	0	8571843	0	4232611	0
03/24/19	629682	0	91358	0	323698	0	196210	0	8034389	0	354372	0	21539	0	8571843	0	4232611	0
03/25/19	629682	0	91358	0	323698	0	196210	0	8034389	0	354372	0	21539	0	8571843	0	4232611	0
03/26/19	629682	0	91358	0	323698	0	196210	0	8034389	0	354372	0	21539	0	8571843	0	4232611	0
03/27/19	629682	0	91358	0	323698	0	196210	0	8034389	0	354372	0	21539	0	8571843	0	4232611	0
03/28/19	629682	0	91425	67	323698	0	196210	0	8034697	308	354372	0	22246	707	8571843	0	4232611	0
03/29/19	629682	0	91425	0	323698	0	196210	0	8034697	0	354372	0	22246	0	8571843	0	4232611	0
03/30/19	629682	0	91425	0	323698	0	196210	0	8034697	0	354372	0	22246	0	8571843	0	4232611	0
03/31/19	629682	0	91425	0	323698	0	196210	0	8034697	0	354372	0	22246	0	8571843	0	4232611	0
	A/B ALR:	**0.2**	**C/D ALR:**	**0.5**	**E/F ALR:**	**0.9**	**G/H ALR:**	**1.3**	**Cell 3 ALR**	**3.1**	**Cell 4 ALR**	**0.0**	**Cell 5A ALR**	**5.9**	**N IMP Sec**	**0.00**	**S IMP Sec**	**0.00**
	Total A/B:	62	*Total C/D:*	137	*Total: E/F:*	187	*Total G/H:*	178	*Total Cell 3:*	918	*Total Cell 4:*	12	*Total Cell 5A:*	1550	*Total North:*	0	*Total South:*	0

Secondary Total: 3044

Hyland Facility Associates **Daily Leachate Tracking April 2019**

Bay 1 (North Impoundment)

Date	Reading from Impoundment (ft)	North Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
03/31/19	3.6	9,223	542,038	1,307
04/01/19	3.6	9,223	542,038	0
04/02/19	3.6	9,223	542,038	0
04/03/19	3.6	9,223	542,038	0
04/04/19	3.6	9,223	542,038	0
04/05/19	3.6	9,223	542,038	0
04/06/19	3.7	10,555	540,706	1,332
04/07/19	3.7	10,555	540,706	0
04/08/19	3.7	10,555	540,706	0
04/09/19	3.7	10,555	540,706	0
04/10/19	3.6	9,223	542,038	-1,332
04/11/19	3.6	9,223	542,038	0
04/12/19	3.6	9,223	542,038	0
04/13/19	3.7	10,555	540,706	1,332
04/14/19	3.7	10,555	540,706	0
04/15/19	3.9	13,294	537,967	2,739
04/16/19	3.1	3,564	547,697	-9,730
04/17/19	3.2	4,303	546,958	739
04/18/19	3.3	5,378	545,883	1,076
04/19/19	3.3	5,378	545,883	0
04/20/19	2.8	2,715	548,546	-2,663
04/21/19	2.8	2,715	548,546	0
04/22/19	2.8	2,715	548,546	0
04/23/19	2.8	2,715	548,546	0
04/24/19	2.8	2,715	548,546	0
04/25/19	1.8	1,067	550,194	-1,648
04/26/19	1.0	348	550,913	-720
04/27/19	1.3	562	550,700	214
04/28/19	1.3	562	550,700	0
04/29/19	1.4	648	550,613	86
04/30/19	0.9	290	550,971	-358

Bay 2 (South Impoundment)

Date	Reading from Impoundment (ft)	South Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
03/31/19	4.6	28,203	528,811	12,032
04/01/19	5.1	44,533	512,481	16,330
04/02/19	4.8	34,554	522,460	-9,979
04/03/19	4.3	19,125	537,889	-15,429
04/04/19	4.1	16,171	540,843	-2,954
04/05/19	3.7	10,574	546,439	-5,597
04/06/19	4.3	19,125	537,889	8,551
04/07/19	4.8	34,554	522,460	15,429
04/08/19	5.2	47,988	509,025	13,435
04/09/19	4.8	34,554	522,460	-13,435
04/10/19	4.4	22,091	534,923	-12,463
04/11/19	3.9	13,323	543,691	-8,768
04/12/19	3.7	10,574	546,439	-2,748
04/13/19	4.2	17,635	539,379	7,060
04/14/19	4.7	31,348	525,666	13,713
04/15/19	5.5	58,757	498,257	27,409
04/16/19	5.8	70,129	486,885	11,372
04/17/19	5.7	66,271	490,743	-3,857
04/18/19	5.3	51,511	505,503	-14,760
04/19/19	4.9	37,819	519,195	-13,692
04/20/19	5.1	44,533	512,481	6,714
04/21/19	5.6	62,481	494,533	17,948
04/22/19	6.0	78,045	478,969	15,564
04/23/19	5.6	62,481	494,533	-15,564
04/24/19	5.2	47,988	509,025	-14,492
04/25/19	5.5	58,757	498,257	10,769
04/26/19	5.2	47,988	509,025	-10,769
04/27/19	5.4	55,101	501,913	7,112
04/28/19	5.8	70,129	486,885	15,028
04/29/19	6.2	86,237	470,777	16,108
04/30/19	5.0	41,144	515,870	-45,093

Total Change in Leachate Volume (gal)	Disposed (gal)	Total Leachate Generation (gal)
13,338	0	13,338
16,330	44,045	60,375
-9,979	51,393	41,414
-15,429	42,457	27,028
-2,954	42,845	39,891
-5,597	0	-5,597
9,882	0	9,882
15,429	0	15,429
13,435	50,271	63,706
-13,435	49,865	36,430
-13,794	42,275	28,481
-8,768	42,858	34,090
-2,748	0	-2,748
8,392	0	8,392
13,713	0	13,713
30,148	50,385	80,533
1,642	42,892	44,534
-3,119	50,012	46,893
-13,685	50,389	36,704
-13,692	43,357	29,665
4,051	0	4,051
17,948	0	17,948
15,564	50,439	66,003
-15,564	50,155	34,591
-14,492	42,147	27,655
9,121	49,999	59,120
-11,488	42,939	31,451
7,326	0	7,326
15,028	0	15,028
16,194	21,561	37,755
-45,450	50,202	4,752

Total Leachate Collected	**914,494**
Secondary Leachate Collected	4,366
Total Primary Collected	910,128
Total Gallons Hauled	910,486

Hyland Facility Associates
Angelica, NY

Daily Leachate Tracking April 2019

Daily Leachate Tracking April 2019

Date	Secondary Liquid Cell 1 A/B Meter Reading	Secondary Liquid Cell 1 A/B Daily Flow	Secondary Liquid Cell 1 C/D Meter Reading	Secondary Liquid Cell 1 C/D Daily Flow	Secondary Liquid Cell 2 E/F Meter Reading	Secondary Liquid Cell 2 E/F Daily Flow	Secondary Liquid Cell 2 G/H Meter Reading	Secondary Liquid Cell 2 G/H Daily Flow	Secondary Liquid Cell 3 Totalize Reading gals	Secondary Liquid Cell 3 Daily Flow gals	Secondary Liquid Cell 4 Totalizer Reading gals	Secondary Liquid Cell 4 Daily Flow gals	Secondary Liquid Cell 5A Totalizer Reading gals	Secondary Liquid Cell 5A Daily Flow gals	North Impound-ment Bay Totalizer Reading gals	North Impound-ment Bay Daily Flow gals	South Impound-ment Bay Totalizer Reading gals	South Impound-ment Bay Daily Flow gals
03/31/19	629682	0	91425	0	323698	0	196210	0	8034697	0	354372	0	22246	0	8571843	0	4232611	0
04/01/19	629682	0	91425	0	323698	0	196243	33	8034697	0	354372	0	22246	0	8571843	0	4232611	0
04/02/19	629682	0	91425	0	323698	0	196243	0	8034697	0	354372	0	22246	0	8571843	0	4232611	0
04/03/19	629682	0	91425	0	323698	0	196243	0	8034697	0	354372	0	22246	0	8571843	0	4232611	0
04/04/19	629682	0	91425	0	323698	0	196243	0	8034697	0	354372	0	22246	0	8571843	0	4232611	0
04/05/19	629682	0	91425	0	323698	0	196243	0	8034697	0	354372	0	22246	0	8571843	0	4232611	0
04/06/19	629741	59	91425	0	323698	0	196243	0	8034697	0	354372	0	22246	0	8571843	0	4232611	0
04/07/19	629741	0	91425	0	323698	0	196243	0	8034697	0	354372	0	22246	0	8571843	0	4232611	0
04/08/19	629741	0	91425	0	323698	0	196243	0	8034697	0	354372	0	22246	0	8571843	0	4232611	0
04/09/19	629741	0	91425	0	323698	0	196275	32	8034697	0	354372	0	22246	0	8571843	0	4232611	0
04/10/19	629741	0	91425	0	323698	0	196275	0	8034697	0	354372	0	22971	725	8571843	0	4232611	0
04/11/19	629741	0	91425	0	323698	0	196307	32	8034697	0	354688	316	22971	0	8571843	0	4232611	0
04/12/19	629741	0	91425	0	323698	0	196307	0	8034697	0	354688	0	22971	0	8571843	0	4232611	0
04/13/19	629744	3	91426	1	323706	8	196309	2	8035005	308	354690	2	22971	0	8571843	0	4232611	0
04/14/19	629744	0	91426	0	323706	0	196309	0	8035005	0	354690	0	22971	0	8571843	0	4232611	0
04/15/19	629744	0	91426	0	323858	152	196309	0	8035005	0	354690	0	22971	0	8571843	0	4232611	0
04/16/19	629744	0	91494	68	323858	0	196309	0	8035005	0	354690	0	22971	0	8571843	0	4232611	0
04/17/19	629744	0	91494	0	323858	0	196309	0	8035005	0	354690	0	22971	0	8571843	0	4232611	0
04/18/19	629744	0	91494	0	323858	0	196341	32	8035005	0	354690	0	23689	718	8571843	0	4232611	0
04/19/19	629744	0	91494	0	323858	0	196341	0	8035005	0	354690	0	23689	0	8571843	0	4232611	0
04/20/19	629744	0	91495	1	323863	5	196341	0	8035005	0	354690	0	23689	0	8571843	0	4232611	0
04/21/19	629744	0	91495	0	323863	0	196342	1	8035315	310	354690	0	23689	0	8571843	0	4232611	0
04/22/19	629744	0	91495	0	323863	0	196374	32	8035315	0	354690	0	24468	779	8571843	0	4232611	0
04/23/19	629744	0	91495	0	323863	0	196374	0	8035315	0	354690	0	24468	0	8571843	0	4232611	0
04/24/19	629744	0	91495	0	323863	0	196374	0	8035315	0	354690	0	24468	0	8571843	0	4232611	0
04/25/19	629744	0	91495	0	323863	0	196374	0	8035315	0	354690	0	24468	0	8571843	0	4232611	0
04/26/19	629744	0	91495	0	323863	0	196374	0	8035315	0	355005	315	24468	0	8571843	0	4232611	0
04/27/19	629804	60	91495	0	323863	0	196405	31	8035317	2	355006	1	24469	1	8571843	0	4232611	0
04/28/19	629804	0	91495	0	323863	0	196405	0	8035317	0	355006	0	24469	0	8571843	0	4232611	0
04/29/19	629804	0	91495	0	323863	0	196436	31	8035317	0	355006	0	24469	0	8571843	0	4232611	0
04/30/19	629804	0	91495	0	323863	0	196436	0	8035623	306	355006	0	24469	0	8571843	0	4232611	0
	A/B ALR:	**0.4**	**C/D ALR:**	**0.3**	**E/F ALR:**	**0.8**	**G/H ALR:**	**1.8**	**Cell 3 ALR**	**3.2**	**Cell 4 ALR**	**2.2**	**Cell 5A ALR**	**8.7**	**N IMP Sec**	**0.00**	**S IMP Sec**	**0.00**
	Total A/B:	122	*Total C/D:*	70	*Total: E/F:*	165	*Total G/H:*	226	*Total Cell 3:*	926	*Total Cell 4:*	634	*Total Cell 5A:*	2223	*Total North:*	0	*Total South:*	0

Secondary Total: 4366

Hyland Facility Associates **Daily Leachate Tracking May 2019**

Bay 1 (North Impoundment)

Date	Reading from Impoundment (ft)	North Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
04/30/19	0.9	290	550,971	-358
05/01/19	2.3	1,770	549,491	1,481
05/02/19	5.5	56,751	494,510	54,981
05/03/19	5.2	46,369	504,892	-10,382
05/04/19	5.1	43,074	508,187	-3,296
05/05/19	5.7	64,085	487,176	21,011
05/06/19	6.2	83,836	467,425	19,752
05/07/19	6.0	75,704	475,557	-8,133
05/08/19	5.8	67,875	483,386	-7,828
05/09/19	5.6	60,377	490,884	-7,499
05/10/19	5.3	49,747	501,514	-10,629
05/11/19	5.7	64,085	487,176	14,337
05/12/19	5.8	67,875	483,386	3,791
05/13/19	5.8	67,875	483,386	0
05/14/19	6.3	88,007	463,254	20,132
05/15/19	6.1	79,735	471,526	-8,272
05/16/19	6.0	75,704	475,557	-4,032
05/17/19	5.7	64,085	487,176	-11,619
05/18/19	5.5	56,751	494,510	-7,334
05/19/19	6.0	75,704	475,557	18,953
05/20/19	6.4	92,248	459,013	16,545
05/21/19	6.2	83,836	467,425	-8,412
05/22/19	6.0	75,704	475,557	-8,133
05/23/19	5.9	71,748	479,513	-3,955
05/24/19	5.6	60,377	490,884	-11,372
05/25/19	5.4	53,208	498,053	-7,169
05/26/19	6.1	79,735	471,526	26,527
05/27/19	6.4	92,248	459,013	12,513
05/28/19	6.9	114,497	436,764	22,249
05/29/19	6.7	105,388	445,873	-9,109
05/30/19	6.5	96,558	454,703	-8,830
05/31/19	6.2	83,836	467,425	-12,722

Bay 2 (South Impoundment)

Date	Reading from Impoundment (ft)	South Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
04/30/19	5.0	41,144	515,870	-45,093
05/01/19	5.3	51,511	505,503	10,367
05/02/19	1.6	832	556,182	-50,679
05/03/19	1.7	940	556,074	108
05/04/19	1.7	940	556,074	0
05/05/19	1.5	731	556,282	-209
05/06/19	1.5	731	556,282	0
05/07/19	1.1	404	556,609	-327
05/08/19	1.3	553	556,461	148
05/09/19	1.3	553	556,461	0
05/10/19	1.6	832	556,182	279
05/11/19	1.8	1,056	555,958	224
05/12/19	1.8	1,056	555,958	0
05/13/19	1.8	1,056	555,958	0
05/14/19	2.1	1,449	555,565	393
05/15/19	2.2	1,599	555,415	149
05/16/19	2.3	1,758	555,256	159
05/17/19	2.3	1,758	555,256	0
05/18/19	2.3	1,758	555,256	0
05/19/19	2.3	1,758	555,256	0
05/20/19	2.3	1,758	555,256	0
05/21/19	2.3	1,758	555,256	0
05/22/19	2.3	1,758	555,256	0
05/23/19	2.3	1,758	555,256	0
05/24/19	2.4	1,927	555,087	169
05/25/19	2.4	1,927	555,087	0
05/26/19	2.6	2,296	554,718	368
05/27/19	2.6	2,296	554,718	0
05/28/19	2.6	2,296	554,718	0
05/29/19	2.7	2,495	554,519	199
05/30/19	2.7	2,495	554,519	0
05/31/19	2.7	2,495	554,519	0

Total Change in Leachate Volume (gal)	Disposed (gal)	Total Leachate Generation (gal)
-45,450	50,202	4,752
11,847	42,054	53,901
4,302	50,217	54,519
-10,274	42,873	32,599
-3,296	0	-3,296
20,802	0	20,802
19,752	42,774	62,526
-8,460	50,069	41,609
-7,680	42,548	34,868
-7,499	51,128	43,629
-10,350	42,934	32,584
14,561	0	14,561
3,791	0	3,791
0	50,410	50,410
20,526	48,977	69,503
-8,123	42,244	34,121
-3,872	50,062	46,190
-11,619	42,999	31,380
-7,334	0	-7,334
18,953	0	18,953
16,545	42,872	59,417
-8,412	35,673	27,261
-8,133	35,366	27,233
-3,955	51,080	47,125
-11,202	42,761	31,559
-7,169	0	-7,169
26,895	0	26,895
12,513	0	12,513
22,249	42,853	65,102
-8,910	42,409	33,499
-8,830	50,171	41,341
-12,722	42,875	30,153

Total Leachate Collected	**1,030,246**
Secondary Leachate Collected	4,094
Total Primary Collected	1,026,152
Total Gallons Hauled	985,349

Hyland Facility Associates
Angelica, NY

Daily Leachate Tracking May 2019

Daily Leachate Tracking May 2019

Date	Secondary Liquid Cell 1 A/B Meter Reading	Secondary Liquid Cell 1 A/B Daily Flow	Secondary Liquid Cell 1 C/D Meter Reading	Secondary Liquid Cell 1 C/D Daily Flow	Secondary Liquid Cell 2 E/F Meter Reading	Secondary Liquid Cell 2 E/F Daily Flow	Secondary Liquid Cell 2 G/H Meter Reading	Secondary Liquid Cell 2 G/H Daily Flow	Secondary Liquid Cell 3 Totalize Reading gals	Secondary Liquid Cell 3 Daily Flow gals	Secondary Liquid Cell 4 Totalizer Reading gals	Secondary Liquid Cell 4 Daily Flow gals	Secondary Liquid Cell 5A Totalizer Reading gals	Secondary Liquid Cell 5A Daily Flow gals	North Impound-ment Bay Totalizer Reading gals	North Impound-ment Bay Daily Flow gals	South Impound-ment Bay Totalizer Reading gals	South Impound-ment Bay Daily Flow gals
04/30/19	629804	0	91495	0	323863	0	196436	0	8035623	306	355006	0	24469	0	8571843	0	4232611	0
05/01/19	629804	0	91495	0	323863	0	196436	0	8035623	0	355006	0	25158	689	8571843	0	4232611	0
05/02/19	629804	0	91495	0	323863	0	196436	0	8035623	0	355006	0	25158	0	8571843	0	4232611	0
05/03/19	629804	0	91495	0	323863	0	196436	0	8035623	0	355006	0	25158	0	8571843	0	4232611	0
05/04/19	629804	0	91495	0	323863	0	196436	0	8035623	0	355006	0	25158	0	8571843	0	4232611	0
05/05/19	629804	0	91562	67	323863	0	196469	33	8035623	0	355014	8	25159	1	8571843	0	4232611	0
05/06/19	629804	0	91562	0	323863	0	196469	0	8035623	0	355014	0	25159	0	8571843	0	4232611	0
05/07/19	629804	0	91562	0	323863	0	196469	0	8035623	0	355014	0	25159	0	8571843	0	4232611	0
05/08/19	629804	0	91562	0	323863	0	196502	33	8035623	0	355014	0	25944	785	8571843	0	4232611	0
05/09/19	629804	0	91562	0	323863	0	196502	0	8035623	0	355014	0	25944	0	8571843	0	4232611	0
05/10/19	629804	0	91562	0	323863	0	196502	0	8035623	0	355014	0	25944	0	8571843	0	4232611	0
05/11/19	629804	0	91562	0	323863	0	196502	0	8035623	0	355014	0	25944	0	8571843	0	4232611	0
05/12/19	629804	0	91562	0	323863	0	196502	0	8035623	0	355014	0	25944	0	8571843	0	4232611	0
05/13/19	629804	0	91562	0	323863	0	196534	32	8035932	309	355014	0	25944	0	8571843	0	4232611	0
05/14/19	629804	0	91562	0	323863	0	196534	0	8035932	0	355014	0	25944	0	8571843	0	4232611	0
05/15/19	629804	0	91562	0	323863	0	196534	0	8035932	0	355014	0	25944	0	8571843	0	4232611	0
05/16/19	629804	0	91562	0	324022	159	196566	32	8036244	312	355329	315	25944	0	8571843	0	4232611	0
05/17/19	629804	0	91562	0	324022	0	196566	0	8036244	0	355329	0	26716	772	8571843	0	4232611	0
05/18/19	629805	1	91562	0	324031	9	196567	1	8036245	1	355335	6	26716	0	8571843	0	4232611	0
05/19/19	629864	59	91562	0	324031	0	196600	33	8036245	0	355335	0	26716	0	8571843	0	4232611	0
05/20/19	629864	0	91562	0	324031	0	196600	0	8036245	0	355335	0	26716	0	8571843	0	4232611	0
05/21/19	629864	0	91562	0	324031	0	196600	0	8036245	0	355335	0	26716	0	8571843	0	4232611	0
05/22/19	629864	0	91562	0	324031	0	196600	0	8036245	0	355335	0	26716	0	8571843	0	4232611	0
05/23/19	629864	0	91631	69	324031	0	196600	0	8036245	0	355335	0	26716	0	8571843	0	4232611	0
05/24/19	629864	0	91631	0	324031	0	196632	32	8036245	0	355335	0	26716	0	8571843	0	4232611	0
05/25/19	629864	0	91631	0	324031	0	196632	0	8036245	0	355335	0	26716	0	8571843	0	4232611	0
05/26/19	629864	0	91631	0	324031	0	196632	0	8036549	304	355335	0	26716	0	8571843	0	4240653	NA(1)
05/27/19	629864	0	91631	0	324031	0	196632	0	8036549	0	355335	0	26716	0	8571843	0	4276666	NA
05/28/19	629864	0	91631	0	324031	0	196632	0	8036549	0	355335	0	26716	0	8571843	0	4312677	NA
05/29/19	629864	0	91631	0	324031	0	196632	0	8036549	0	355335	0	26716	0	8571843	0	4348690	NA
05/30/19	629864	0	91631	0	324031	0	196664	32	8036549	0	355335	0	26716	0	8571843	0	4362863	NA
05/31/19	629864	0	91631	0	324031	0	196664	0	8036549	0	355335	0	26716	0	8571843	0	4362863	0
	A/B ALR:	**0.2**	**C/D ALR:**	**0.5**	**E/F ALR:**	**0.8**	**G/H ALR:**	**1.7**	**Cell 3 ALR**	**3.1**	**Cell 4 ALR**	**1.1**	**Cell 5A ALR**	**8.5**	**N IMP Sec**	**0.00**	**S IMP Sec**	**0.00**
	Total A/B:	60	*Total C/D:*	136	*Total: E/F:*	168	*Total G/H:*	228	*Total Cell 3:*	926	*Total Cell 4:*	329	*Total Cell 5A:*	2247	*Total North:*	0	*Total South:*	0

Note: 1.) Flow meter issues from May 26th to May 30th. No real flow was observed.

Secondary Total: 4094

Hyland Facility Associates **Daily Leachate Tracking June 2019**

Bay 1 (North Impoundment)

Date	Manual Reading from Impoundment (ft)	North Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
05/31/19	6.2	83,836	467,425	-12,722
06/01/19	6.0	75,704	475,557	-8,133
06/02/19	6.5	96,558	454,703	20,855
06/03/19	6.9	114,497	436,764	17,939
06/04/19	6.6	100,939	450,322	-13,558
06/05/19	6.3	88,007	463,254	-12,931
06/06/19	6.9	114,497	436,764	26,490
06/07/19	7.8	159,114	392,147	44,617
06/08/19	8.7	209,948	341,314	50,834
06/09/19	8.8	215,996	335,265	6,049
06/10/19	8.8	215,996	335,265	0
06/11/19	8.0	169,856	381,405	-46,141
06/12/19	7.4	138,533	412,728	-31,323
06/13/19	6.8	109,908	441,353	-28,625
06/14/19	6.0	75,704	475,557	-34,204
06/15/19	5.8	67,875	483,386	-7,828
06/16/19	6.2	83,836	467,425	15,961
06/17/19	6.6	100,939	450,322	17,102
06/18/19	6.3	88,007	463,254	-12,931
06/19/19	6.2	83,836	467,425	-4,171
06/20/19	6.0	75,704	475,557	-8,133
06/21/19	6.2	83,836	467,425	8,133
06/22/19	6.2	83,836	467,425	0
06/23/19	6.2	83,836	467,425	0
06/24/19	6.2	83,836	467,425	0
06/25/19	6.3	88,007	463,254	4,171
06/26/19	6.3	88,007	463,254	0
06/27/19	6.3	88,007	463,254	0
06/28/19	6.2	83,836	467,425	-4,171
06/29/19	6.3	88,007	463,254	4,171
06/30/2019[1]	6.3	88,007	463,254	0

Bay 2 (South Impoundment)

Date	Manual Reading from Impoundment (ft)	South Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
05/31/19	2.7	2,495	554,519	0
06/01/19	2.7	2,495	554,519	0
06/02/19	2.9	2,922	554,091	428
06/03/19	2.9	2,922	554,091	0
06/04/19	2.9	2,922	554,091	0
06/05/19	2.9	2,922	554,091	0
06/06/19	3.4	6,639	550,375	3,716
06/07/19	3.5	7,926	549,088	1,287
06/08/19	3.5	7,926	549,088	0
06/09/19	5.8	70,129	486,885	62,203
06/10/19	7.6	151,635	405,379	81,506
06/11/19	8.0	173,004	384,010	21,369
06/12/19	8.1	178,538	378,476	5,534
06/13/19	8.1	178,538	378,476	0
06/14/19	8.1	178,538	378,476	0
06/15/19	8.1	178,538	378,476	0
06/16/19	8.1	178,538	378,476	0
06/17/19	8.1	178,538	378,476	0
06/18/19	8.2	184,154	372,860	5,615
06/19/19	8.2	184,154	372,860	0
06/20/19	8.0	173,004	384,010	-11,150
06/21/19	7.8	162,168	394,846	-10,836
06/22/19	7.9	167,548	389,466	5,380
06/23/19	8.2	184,154	372,860	16,606
06/24/19	8.2	184,154	372,860	0
06/25/19	7.8	162,168	394,846	-21,986
06/26/19	7.6	151,635	405,379	-10,533
06/27/19	7.2	131,477	425,537	-20,158
06/28/19	6.8	112,521	444,492	-18,955
06/29/2019[2]	6.9	117,151	439,863	4,630
06/30/2019[2]	7.4	141,404	415,609	24,253

Total Change in Leachate Volume (gal)	Disposed (gal)	Total Leachate Generation (gal)
-12,722	42,875	30,153
-8,133	0	-8,133
21,283	0	21,283
17,939	43,019	60,958
-13,558	50,011	36,453
-12,931	42,294	29,363
30,206	58,960	89,166
45,904	66,012	111,916
50,834	0	50,834
68,252	0	68,252
81,506	79,379	160,885
-24,771	65,459	40,688
-25,789	71,674	45,885
-28,625	79,431	50,806
-34,204	50,892	16,688
-7,828	0	-7,828
15,961	0	15,961
17,102	28,378	45,480
-7,316	58,875	51,559
-4,171	49,798	45,627
-19,283	57,698	38,415
-2,703	50,742	48,039
5,380	0	5,380
16,606	0	16,606
0	65,279	65,279
-17,815	57,821	40,006
-10,533	49,911	39,378
-20,158	49,849	29,691
-23,126	20,970	-2,156
8,801	0	8,801
24,253	0	24,253

Total Leachate Collected	**1,239,533**
Secondary Leachate Collected	5,688
Total Primary Collected	1,233,845
Total Gallons Hauled	1,096,452

Notes: 1.) The manual reading for the North Impoundment on June 30, 2019 has been updated since the information was submitted to the NYSDEC as part of the 2nd quarter report. This update has changed the North Bay Leachate Level, Leachate Capacity to Overflow, Daily Change in Leachate Volume, Total Change in Leachate Volume, Total Leachate Generation, Total Leachate Collected, and Total Primary Collected values.

2.) The manual readings for the South Impoundment on June 29, 2019 and June 30, 2019 have been updated since the information was submitted to the NYSDEC as part of the 2nd quarter report. These updates have changed the South Bay Leachate Level, Leachate Capacity to Overflow, Daily Change in Leachate Volume, Total Change in Leachate Volume, Total Leachate Generation, Total Leachate Collected, and Total Primary Collected values.

Hyland Facility Associates
Angelica, NY

Daily Leachate Tracking June 2019

Date	Secondary Liquid Cell 1 A/B Meter Reading	Secondary Liquid Cell 1 A/B Daily Flow	Secondary Liquid Cell 1 C/D Meter Reading	Secondary Liquid Cell 1 C/D Daily Flow	Secondary Liquid Cell 2 E/F Meter Reading	Secondary Liquid Cell 2 E/F Daily Flow	Secondary Liquid Cell 2 G/H Meter Reading	Secondary Liquid Cell 2 G/H Daily Flow	Secondary Liquid Cell 3 Totalize Reading gals	Secondary Liquid Cell 3 Daily Flow gals	Secondary Liquid Cell 4 Totalizer Reading gals	Secondary Liquid Cell 4 Daily Flow gals	Secondary Liquid Cell 5A Totalizer Reading gals	Secondary Liquid Cell 5A Daily Flow gals	North Impound-ment Bay Totalizer Reading gals	North Impound-ment Bay Daily Flow gals	South Impound-ment Bay Totalizer Reading gals	South Impound-ment Bay Daily Flow gals
05/31/19	629864	0	91631	0	324031	0	196664	0	8036549	0	355335	0	26716	0	8571843	0	4362863	0
06/01/19	629865	1	91632	1	324039	8	196664	0	8036551	2	355340	5	27453	737	8571843	0	4362863	0
06/02/19	629865	0	91632	0	324039	0	196664	0	8036551	0	355340	0	27453	0	8571843	0	4362863	0
06/03/19	629865	0	91632	0	324039	0	196697	33	8036551	0	355340	0	27453	0	8571843	0	4362863	0
06/04/19	629865	0	91632	0	324039	0	196697	0	8036551	0	355340	0	27453	0	8571843	0	4362863	0
06/05/19	629865	0	91632	0	324039	0	196697	0	8036551	0	355340	0	27453	0	8571843	0	4362863	0
06/06/19	629865	0	91632	0	324039	0	196697	0	8036854	303	355657	317	27453	0	8571843	0	4362863	0
06/07/19	629865	0	91632	0	324039	0	196697	0	8036854	0	355657	0	28226	773	8571843	0	4362863	0
06/08/19	629866	1	91633	1	324048	9	196730	33	8036855	1	355665	8	28229	3	8571843	0	4362863	0
06/09/19	629866	0	91633	0	324048	0	196730	0	8036855	0	355665	0	28229	0	8571843	0	4362863	0
06/10/19	629866	0	91633	0	324048	0	196730	0	8036855	0	355665	0	28229	0	8571843	0	4362863	0
06/11/19	629866	0	91633	0	324048	0	196730	0	8036855	0	355665	0	28229	0	8571843	0	4362863	0
06/12/19	629866	0	91702	69	324048	0	196763	33	8036855	0	355665	0	28229	0	8571843	0	4362863	0
06/13/19	629866	0	91702	0	324048	0	196763	0	8036855	0	355665	0	28229	0	8571843	0	4362863	0
06/14/19	629870	4	91703	1	324056	8	196764	1	8036856	1	355674	9	28229	0	8571843	0	4362863	0
06/15/19	629870	0	91703	0	324056	0	196764	0	8036856	0	355674	0	28229	0	8571843	0	4362863	0
06/16/19	629870	0	91703	0	324056	0	196764	0	8037161	305	355674	0	28229	0	8571843	0	4362863	0
06/17/19	629870	0	91703	0	324056	0	196764	0	8037161	0	355674	0	28229	0	8571843	0	4362863	0
06/18/19	629931	61	91703	0	324056	0	196797	33	8037161	0	355674	0	28229	0	8571843	0	4362863	0
06/19/19	629931	0	91703	0	324056	0	196797	0	8037161	0	355674	0	28229	0	8571843	0	4362863	0
06/20/19	629931	0	91703	0	324056	0	196797	0	8037161	0	355674	0	28229	0	8571843	0	4362863	0
06/21/19	629931	0	91703	0	324231	175	196797	0	8037161	0	355674	0	29047	818	8571843	0	4362863	0
06/22/19	629932	1	91704	1	324239	8	196831	34	8037162	1	355678	4	29050	3	8571843	0	4362863	0
06/23/19	629932	0	91704	0	324239	0	196831	0	8037162	0	355678	0	29050	0	8571843	0	4362863	0
06/24/19	629932	0	91704	0	324239	0	196831	0	8037162	0	355678	0	29050	0	8571843	0	4362863	0
06/25/19	629932	0	91704	0	324239	0	196831	0	8037162	0	355678	0	29050	0	8571843	0	4362863	0
06/26/19	629932	0	91704	0	324239	0	196831	0	8037162	0	355678	0	29050	0	8571843	0	4362863	0
06/27/19	629932	0	91704	0	324239	0	196831	0	8037162	0	355678	0	29842	792	8571843	0	4362863	0
06/28/19	629932	0	91704	0	324239	0	196865	34	8037472	310	355954	276	29936	94	8571843	0	4362863	0
06/29/19	629943	11	91711	7	324249	10	196865	0	8037474	2	355954	0	29936	0	8571843	0	4362863	0
06/30/2019[1]	629943	0	91711	0	324249	0	196870	5	8037474	0	356293	339	29936	0	8571844	1	4362864	1
	A/B ALR:	**0.3**	**C/D ALR:**	**0.3**	**E/F ALR:**	**1.0**	**G/H ALR:**	**1.6**	**Cell 3 ALR**	**3.2**	**Cell 4 ALR**	**3.4**	**Cell 5A ALR**	**12.6**	**N IMP Sec**	**0.14**	**S IMP Sec**	**0.14**
	Total A/B:	79	*Total C/D:*	80	*Total: E/F:*	218	*Total G/H:*	206	*Total Cell 3:*	925	*Total Cell 4:*	958	*Total Cell 5A:*	3220	*Total North:*	1	*Total South:*	1

Note: 1.) The Secondary Cell Meter Reading on June 30, 2019 has been updated for Cells 2 G/H, Cell 4, North Impoundment, and South Impoundement since this information was submitted to the NYSDEC as part of the 2nd quarter report.
These updates have changed the corresponding daily flow values, the total flow values, ALR values, and the Secondary Total value.

Secondary Total: 5688

Hyland Facility Associates **Daily Leachate Tracking July 2019**

Bay 1 (North Impoundment)

Date	Manual Reading from Impoundment (ft)	North Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
06/30/19	6.3	88,007	463,254	0
07/01/19	6.3	88,007	463,254	0
07/02/19	6.2	83,836	467,425	-4,171
07/03/19	6.2	83,836	467,425	0
07/04/19	6.3	88,007	463,254	4,171
07/05/19	6.3	88,007	463,254	0
07/06/19	6.3	88,007	463,254	0
07/07/19	6.5	96,558	454,703	8,551
07/08/19	6.5	96,558	454,703	0
07/09/19	6.5	96,558	454,703	0
07/10/19	6.5	96,558	454,703	0
07/11/19	6.4	92,248	459,013	-4,310
07/12/19	6.4	92,248	459,013	0
07/13/19	6.4	92,248	459,013	0
07/14/19	6.4	92,248	459,013	0
07/15/19	6.4	92,248	459,013	0
07/16/19	6.4	92,248	459,013	0
07/17/19	6.4	92,248	459,013	0
07/18/19	6.5	96,558	454,703	4,310
07/19/19	6.5	96,558	454,703	0
07/20/19	6.5	96,558	454,703	0
07/21/19	6.5	96,558	454,703	0
07/22/19	6.5	96,558	454,703	0
07/23/19	6.6	100,939	450,322	4,380
07/24/19	6.6	100,939	450,322	0
07/25/19	6.6	100,939	450,322	0
07/26/19	6.6	100,939	450,322	0
07/27/19	6.5	96,558	454,703	-4,380
07/28/19	6.5	96,558	454,703	0
07/29/19	6.6	100,939	450,322	4,380
07/30/19	6.6	100,939	450,322	0
07/31/19	6.8	109,908	441,353	8,969

Bay 2 (South Impoundment)

Date	Manual Reading from Impoundment (ft)	South Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
06/30/19	7.4	141,404	415,609	24,253
07/01/19	7.7	156,863	400,150	15,459
07/02/19	7.2	131,477	425,537	-25,387
07/03/19	7.2	131,477	425,537	0
07/04/19	7.1	126,627	430,387	-4,850
07/05/19	7.5	146,482	410,532	19,855
07/06/19	7.1	126,627	430,387	-19,855
07/07/19	7.9	167,548	389,466	40,921
07/08/19	8.2	184,154	372,860	16,606
07/09/19	7.9	167,548	389,466	-16,606
07/10/19	7.5	146,482	410,532	-21,066
07/11/19	7.2	131,477	425,537	-15,005
07/12/19	6.8	112,521	444,492	-18,955
07/13/19	6.5	99,059	457,955	-13,463
07/14/19	6.9	117,151	439,863	18,092
07/15/19	7.2	131,477	425,537	14,326
07/16/19	6.9	117,151	439,863	-14,326
07/17/19	6.5	99,059	457,955	-18,092
07/18/19	6.4	94,714	462,300	-4,345
07/19/19	5.9	74,053	482,961	-20,660
07/20/19	5.6	62,481	494,533	-11,572
07/21/19	6.0	78,045	478,969	15,564
07/22/19	6.5	99,059	457,955	21,014
07/23/19	6.4	94,714	462,300	-4,345
07/24/19	5.9	74,053	482,961	-20,660
07/25/19	5.6	62,481	494,533	-11,572
07/26/19	5.0	41,144	515,870	-21,337
07/27/19	4.7	31,348	525,666	-9,796
07/28/19	5.2	47,988	509,025	16,640
07/29/19	5.6	62,481	494,533	14,492
07/30/19	5.1	44,533	512,481	-17,948
07/31/19	4.3	19,125	537,889	-25,408

Total Change in Leachate Volume (gal)	Disposed (gal)	Total Leachate Generation (gal)
24,253	0	24,253
15,459	49,187	64,646
-29,558	42,775	13,217
0	42,943	42,943
-679	0	-679
19,855	57,531	77,386
-19,855	0	-19,855
49,472	0	49,472
16,606	57,293	73,899
-16,606	57,300	40,694
-21,066	49,856	28,790
-19,315	57,581	38,266
-18,955	49,834	30,879
-13,463	0	-13,463
18,092	0	18,092
14,326	50,494	64,820
-14,326	57,911	43,585
-18,092	64,284	46,192
-35	57,356	57,321
-20,660	50,129	29,469
-11,572	0	-11,572
15,564	0	15,564
21,014	57,499	78,513
35	57,288	57,323
-20,660	49,515	28,855
-11,572	57,583	46,011
-21,337	43,255	21,918
-14,176	0	-14,176
16,640	0	16,640
18,872	57,232	76,104
-17,948	57,545	39,597
-16,439	35,221	18,782

Total Leachate Collected	**1,059,233**
Secondary Leachate Collected	24,804
Total Primary Collected	1,034,429
Total Gallons Hauled	1,159,612

Hyland Facility Associates
Angelica, NY

Daily Leachate Tracking July 2019

Date	Secondary Liquid Cell 1 A/B Meter Reading	Secondary Liquid Cell 1 A/B Daily Flow	Secondary Liquid Cell 1 C/D Meter Reading	Secondary Liquid Cell 1 C/D Daily Flow	Secondary Liquid Cell 2 E/F Meter Reading	Secondary Liquid Cell 2 E/F Daily Flow	Secondary Liquid Cell 2 G/H Meter Reading	Secondary Liquid Cell 2 G/H Daily Flow	Secondary Liquid Cell 3 Totalize Reading gals	Secondary Liquid Cell 3 Daily Flow gals	Secondary Liquid Cell 4 Totalizer Reading gals	Secondary Liquid Cell 4 Daily Flow gals	Secondary Liquid Cell 5A Totalizer Reading gals	Secondary Liquid Cell 5A Daily Flow gals[1]	North Impound-ment Bay Totalizer Reading gals	North Impound-ment Bay Daily Flow gals	South Impound-ment Bay Totalizer Reading gals	South Impound-ment Bay Daily Flow gals
06/30/19	629943	0	91711	0	324249	0	196870	5	8037474	0	356293	339	29936	0	8571844	1	4362864	1
07/01/19	629943	0	91711	0	324249	0	196870	0	8037474	0	356293	0	32750	2814	8571844	0	4362864	0
07/02/19	629943	0	91711	0	324249	0	196870	0	8037474	0	356293	0	32750	0	8571844	0	4362864	0
07/03/19	629943	0	91711	0	324249	0	196903	33	8037474	0	356293	0	32750	0	8571844	0	4362864	0
07/04/19	629943	0	91711	0	324249	0	196903	0	8037474	0	356293	0	34407	1657	8571844	0	4362864	0
07/05/19	629943	0	91711	0	324249	0	196903	0	8037474	0	356293	0	35274	867	8571844	0	4362864	0
07/06/19	629946	3	91713	2	324260	11	196905	2	8037487	13	356293	0	36108	834	8571844	0	4362864	0
07/07/19	629946	0	91782	69	324260	0	196905	0	8037487	0	356416	123	40838	4730	8571844	0	4362864	0
07/08/19	629946	0	91782	0	324260	0	196938	33	8037565	78	356416	0	44454	3616	8571844	0	4362864	0
07/09/19	629946	0	91782	0	324260	0	196938	0	8037792	227	356923	NA[2]	44454	0	8571844	0	4362864	0
07/10/19	629946	0	91782	0	324260	0	196938	0	8037792	0	358102	NA	45269	815	8571844	0	4362864	0
07/11/19	629946	0	91782	0	324260	0	196938	0	8037792	0	358768	NA	46071	802	8571844	0	4362864	0
07/12/19	629946	0	91782	0	324260	0	196971	33	8037792	0	358768	NA	46903	832	8571844	0	4362864	0
07/13/19	629947	1	91782	0	324268	8	196972	1	8037798	6	358768	NA	47746	843	8571844	0	4362864	0
07/14/19	629947	0	91782	0	324268	0	196972	0	8037798	0	359092	NA	47746	0	8571844	0	4362864	0
07/15/19	629947	0	91782	0	324268	0	196972	0	8037798	0	359566	NA	47746	0	8571844	0	4362864	0
07/16/19	629947	0	91782	0	324268	0	196972	0	8037798	0	360157	NA	47746	0	8571844	0	4362864	0
07/17/19	629947	0	91782	0	324268	0	196972	0	8037798	0	360616	NA	48587	841	8571844	0	4362864	0
07/18/19	629947	0	91782	0	324268	0	197006	34	8037798	0	360617	NA	50078	1491	8571844	0	4362864	0
07/19/19	629947	0	91782	0	324268	0	197006	0	8037798	0	360915	NA	50633	555	8571844	0	4362864	0
07/20/19	629954	7	91787	5	324276	8	197009	3	8037798	0	361381	NA	50660	27	8571844	0	4362864	0
07/21/19	629954	0	91787	0	324276	0	197009	0	8038096	298	361631	NA	50794	134	8571844	0	4362864	0
07/22/19	629954	0	91787	0	324276	0	197009	0	8038096	0	361902	NA	50794	0	8571844	0	4362864	0
07/23/19	629954	0	91787	0	324276	0	197009	0	8038096	0	361902	NA	51137	343	8571844	0	4362864	0
07/24/19	629954	0	91787	0	324276	0	197043	34	8038096	0	361902	NA	51380	243	8571844	0	4362864	0
07/25/19	629954	0	91787	0	324276	0	197043	0	8038096	0	362013	NA	51600	220	8571844	0	4362864	0
07/26/19	629954	0	91787	0	324276	0	197043	0	8038096	0	362013	0	51882	282	8571844	0	4362864	0
07/27/19	629954	0	91787	0	324276	0	197043	0	8038096	0	362013	0	51911	29	8571844	0	4362864	0
07/28/19	629958	4	91791	4	324286	10	197046	3	8038098	2	362013	0	51911	0	8571844	0	4362864	0
07/29/19	629958	0	91791	0	324286	0	197046	0	8038098	0	363399	1386	51911	0	8571844	0	4362864	0
07/30/19	629958	0	91791	0	324286	0	197046	0	8038098	0	363399	0	52124	213	8571844	0	4362864	0
07/31/19	629958	0	91791	0	324286	0	197079	33	8038098	0	363399	0	52266	142	8571844	0	4362864	0
	A/B ALR:	**0.1**	**C/D ALR:**	**0.3**	**E/F ALR:**	**0.2**	**G/H ALR:**	**1.6**	**Cell 3 ALR**	**2.1**	**Cell 4 ALR**	**5.1**	**Cell 5A ALR**	**84.7**	**N IMP Sec**	**0.00**	**S IMP Sec**	**0.00**
	Total A/B:	15	*Total C/D:*	80	*Total: E/F:*	37	*Total G/H:*	209	*Total Cell 3:*	624	*Total Cell 4:*	1509	*Total Cell 5A:*	22330	*Total North:*	0	*Total South:*	0

Notes: 1.) Elevated flows in Cell 5A during July were a result of the tie-in being open during construction of Cell 5B. NYSDEC was notified of the exceedance on July 8, 2019.
2.) Flow meter issues from July 9th to July 25th. No real flow was observed.

Secondary Total: 24804

Hyland Facility Associates **Daily Leachate Tracking August 2019**

Bay 1 (North Impoundment)

Date	Manual Reading from Impoundment (ft)	North Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
07/31/19	6.8	109,908	441,353	8,969
08/01/19	7.0	119,156	432,105	9,248
08/02/19	6.7	105,388	445,873	-13,768
08/03/19	6.6	100,939	450,322	-4,450
08/04/19	6.9	114,497	436,764	13,558
08/05/19	7.2	128,694	422,567	14,197
08/06/19	7.0	119,156	432,105	-9,538
08/07/19	6.8	109,908	441,353	-9,248
08/08/19	6.5	96,558	454,703	-13,349
08/09/19	6.1	79,735	471,526	-16,823
08/10/19	5.8	67,875	483,386	-11,860
08/11/19	6.2	83,836	467,425	15,961
08/12/19	6.6	100,939	450,322	17,102
08/13/19	6.3	88,007	463,254	-12,931
08/14/19	5.9	71,748	479,513	-16,259
08/15/19	5.5	56,751	494,510	-14,997
08/16/19	5.1	43,074	508,187	-13,677
08/17/19	5.0	39,861	511,400	-3,213
08/18/19	5.5	56,751	494,510	16,890
08/19/19	5.9	71,748	479,513	14,997
08/20/19	5.6	60,377	490,884	-11,372
08/21/19	5.4	53,208	498,053	-7,169
08/22/19	5.5	56,751	494,510	3,543
08/23/19	5.7	64,085	487,176	7,334
08/24/19	5.9	71,748	479,513	7,664
08/25/19	6.3	88,007	463,254	16,259
08/26/19	6.7	105,388	445,873	17,381
08/27/19	6.5	96,558	454,703	-8,830
08/28/19	6.1	79,735	471,526	-16,823
08/29/19	5.8	67,875	483,386	-11,860
08/30/19	5.4	53,208	498,053	-14,667
08/31/19	5.2	46,369	504,892	-6,839

Bay 2 (South Impoundment)

Date	Manual Reading from Impoundment (ft)	South Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
07/31/19	4.3	19,125	537,889	-25,408
08/01/19	4.5	25,117	531,897	5,992
08/02/19	4.5	25,117	531,897	0
08/03/19	4.5	25,117	531,897	0
08/04/19	4.5	25,117	531,897	0
08/05/19	4.5	25,117	531,897	0
08/06/19	4.5	25,117	531,897	0
08/07/19	4.6	28,203	528,811	3,086
08/08/19	4.6	28,203	528,811	0
08/09/19	4.6	28,203	528,811	0
08/10/19	4.6	28,203	528,811	0
08/11/19	4.6	28,203	528,811	0
08/12/19	4.6	28,203	528,811	0
08/13/19	4.6	28,203	528,811	0
08/14/19	4.6	28,203	528,811	0
08/15/19	4.7	31,348	525,666	3,146
08/16/19	4.7	31,348	525,666	0
08/17/19	4.7	31,348	525,666	0
08/18/19	4.7	31,348	525,666	0
08/19/19	4.7	31,348	525,666	0
08/20/19	4.7	31,348	525,666	0
08/21/19	4.7	31,348	525,666	0
08/22/19	4.9	37,819	519,195	6,471
08/23/19	4.9	37,819	519,195	0
08/24/19	4.9	37,819	519,195	0
08/25/19	4.9	37,819	519,195	0
08/26/19	4.9	37,819	519,195	0
08/27/19	4.9	37,819	519,195	0
08/28/19	4.9	37,819	519,195	0
08/29/19	5.0	41,144	515,870	3,325
08/30/19	5.0	41,144	515,870	0
08/31/19	5.0	41,144	515,870	0

Total Change in Leachate Volume (gal)	Disposed (gal)	Total Leachate Generation (gal)
-16,439	35,221	18,782
15,240	49,526	64,766
-13,768	35,136	21,368
-4,450	0	-4,450
13,558	0	13,558
14,197	42,409	56,606
-9,538	42,477	32,939
-6,162	49,487	43,325
-13,349	57,288	43,939
-16,823	50,054	33,231
-11,860	0	-11,860
15,961	0	15,961
17,102	57,434	74,536
-12,931	57,339	44,408
-16,259	49,367	33,108
-11,851	56,659	44,808
-13,677	35,463	21,786
-3,213	0	-3,213
16,890	0	16,890
14,997	42,553	57,550
-11,372	42,608	31,236
-7,169	49,439	42,270
10,014	42,581	52,595
7,334	35,272	42,606
7,664	0	7,664
16,259	0	16,259
17,381	42,507	59,888
-8,830	49,579	40,749
-16,823	49,288	32,465
-8,535	49,745	41,210
-14,667	42,299	27,632
-6,839	0	-6,839

Total Leachate Collected	**986,991**
Secondary Leachate Collected	4,741
Total Primary Collected	982,250
Total Gallons Hauled	1,028,510

Hyland Facility Associates
Angelica, NY

Daily Leachate Tracking August 2019

Date	Secondary Liquid Cell 1 A/B Meter Reading	Secondary Liquid Cell 1 A/B Daily Flow	Secondary Liquid Cell 1 C/D Meter Reading	Secondary Liquid Cell 1 C/D Daily Flow	Secondary Liquid Cell 2 E/F Meter Reading	Secondary Liquid Cell 2 E/F Daily Flow	Secondary Liquid Cell 2 G/H Meter Reading	Secondary Liquid Cell 2 G/H Daily Flow	Secondary Liquid Cell 3 Totalize Reading gals	Secondary Liquid Cell 3 Daily Flow gals	Secondary Liquid Cell 4 Totalizer Reading gals	Secondary Liquid Cell 4 Daily Flow gals	Secondary Liquid Cell 5A Totalizer Reading gals	Secondary Liquid Cell 5A Daily Flow gals	North Impound-ment Bay Totalizer Reading gals	North Impound-ment Bay Daily Flow gals[1]	South Impound-ment Bay Totalizer Reading gals	South Impound-ment Bay Daily Flow gals
07/31/19	629958	0	91791	0	324286	0	197079	33	8038098	0	363399	0	52266	142	8571844	0	4362864	0
08/01/19	629969	11	91801	10	324297	11	197088	9	8038154	56	363399	0	52394	128	8571844	0	4362864	0
08/02/19	629969	0	91801	0	324297	0	197088	0	8038154	0	363399	0	52547	153	8571844	0	4362864	0
08/03/19	629969	0	91801	0	324297	0	197088	0	8038154	0	363399	0	52725	178	8571844	0	4362864	0
08/04/19	629969	0	91801	0	324297	0	197088	0	8038154	0	363399	0	52725	0	8571852	8	4362864	0
08/05/19	629969	0	91801	0	324297	0	197088	0	8038154	0	363399	0	52725	0	8571856	4	4362864	0
08/06/19	629969	0	91801	0	324495	198	197088	0	8038154	0	363399	0	53067	342	8571856	0	4362864	0
08/07/19	629969	0	91801	0	324495	0	197088	0	8038154	0	363399	0	53244	177	8571860	4	4362864	0
08/08/19	629969	0	91869	68	324495	0	197121	33	8038456	302	363399	0	53385	141	8571860	0	4362864	0
08/09/19	629969	0	91869	0	324495	0	197121	0	8038456	0	363399	0	53532	147	8571865	5	4362864	0
08/10/19	629973	4	91872	3	324571	76	197123	2	8038456	0	363399	0	53694	162	8572119	254	4362864	0
08/11/19	629973	0	91872	0	324571	0	197123	0	8038456	0	363399	0	53694	0	8572119	0	4362864	0
08/12/19	629973	0	91872	0	324571	0	197123	0	8038456	0	363399	0	53694	0	8572119	0	4362864	0
08/13/19	629973	0	91872	0	324571	0	197123	0	8038456	0	363399	0	53938	244	8572119	0	4362864	0
08/14/19	629973	0	91872	0	324571	0	197123	0	8038456	0	363399	0	54067	129	8572119	0	4362864	0
08/15/19	629973	0	91872	0	324571	0	197123	0	8038456	0	363399	0	54188	121	8572119	0	4362864	0
08/16/19	629973	0	91872	0	324571	0	197156	33	8038456	0	363399	0	54244	56	8572119	0	4362864	0
08/17/19	629974	1	91872	0	324581	10	197157	1	8038460	4	363399	0	54341	97	8572119	0	4362864	0
08/18/19	629974	0	91872	0	324581	0	197157	0	8038460	0	363399	0	54426	85	8572119	0	4362864	0
08/19/19	629974	0	91872	0	324581	0	197157	0	8038460	0	363399	0	54426	0	8572119	0	4362864	0
08/20/19	629974	0	91872	0	324581	0	197157	0	8038460	0	363399	0	54568	142	8572119	0	4362864	0
08/21/19	629974	0	91872	0	324581	0	197157	0	8038460	0	363399	0	54658	90	8572119	0	4362864	0
08/22/19	629974	0	91872	0	324581	0	197157	0	8038460	0	363399	0	54758	100	8572119	0	4362869	5
08/23/19	629974	0	91872	0	324581	0	197190	33	8038460	0	363399	0	54758	0	8572119	0	4362869	0
08/24/19	629977	3	91874	2	324590	9	197193	3	8038460	0	363399	0	54970	212	8572119	0	4362869	0
08/25/19	629977	0	91874	0	324590	0	197193	0	8038468	8	363666	267	55076	106	8572121	2	4362869	0
08/26/19	629977	0	91874	0	324590	0	197193	0	8038468	0	363666	0	55076	0	8572121	0	4362869	0
08/27/19	629977	0	91874	0	324590	0	197193	0	8038468	0	363666	0	55228	152	8572121	0	4362869	0
08/28/19	629977	0	91874	0	324590	0	197193	0	8038468	0	363666	0	55228	0	8572121	0	4362869	0
08/29/19	629977	0	91874	0	324590	0	197193	0	8038468	0	363666	0	55337	109	8572121	0	4362869	0
08/30/19	629977	0	91874	0	324590	0	197193	0	8038468	0	363666	0	55337	0	8572121	0	4362869	0
08/31/19	629977	0	91874	0	324590	0	197193	0	8038468	0	363666	0	55568	231	8572121	0	4362869	0
	A/B ALR:	**0.1**	**C/D ALR:**	**0.3**	**E/F ALR:**	**1.4**	**G/H ALR:**	**0.9**	**Cell 3 ALR**	**1.2**	**Cell 4 ALR**	**0.9**	**Cell 5A ALR**	**12.5**	**N IMP Sec**	**39.57**	**S IMP Sec**	**0.71**
	Total A/B:	19	*Total C/D:*	83	*Total: E/F:*	304	*Total G/H:*	114	*Total Cell 3:*	370	*Total Cell 4:*	267	*Total Cell 5A:*	3302	*Total North:*	277	*Total South:*	5

Note: 1.) Additional leachate was mistakenly pumped out of the North Impoundment on August 10th when the pump setting was changed to automatic. NYSDEC was notified of this exceedance on August 14, 2019.

Secondary Total: 4741

Hyland Facility Associates **Daily Leachate Tracking September 2019**

Bay 1 (North Impoundment)

Date	Manual Reading from Impoundment (ft)	North Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
08/31/19	5.2	46,369	504,892	-6,839
09/01/19	5.6	60,377	490,884	14,007
09/02/19	6.0	75,704	475,557	15,327
09/03/19	6.4	92,248	459,013	16,545
09/04/19	6.1	79,735	471,526	-12,513
09/05/19	5.7	64,085	487,176	-15,651
09/06/19	5.4	53,208	498,053	-10,877
09/07/19	5.2	46,369	504,892	-6,839
09/08/19	5.6	60,377	490,884	14,007
09/09/19	6.0	75,704	475,557	15,327
09/10/19	5.9	71,748	479,513	-3,955
09/11/19	5.6	60,377	490,884	-11,372
09/12/19	5.5	56,751	494,510	-3,626
09/13/19	6.6	100,939	450,322	44,188
09/14/19	6.5	96,558	454,703	-4,380
09/15/19	7.1	123,887	427,374	27,329
09/16/19	7.5	143,565	407,696	19,678
09/17/19	7.4	138,533	412,728	-5,032
09/18/19	7.1	123,887	427,374	-14,646
09/19/19	6.8	109,908	441,353	-13,979
09/20/19	6.5	96,558	454,703	-13,349
09/21/19	6.3	88,007	463,254	-8,551
09/22/19	6.7	105,388	445,873	17,381
09/23/19	7.0	119,156	432,105	13,768
09/24/19	6.9	114,497	436,764	-4,659
09/25/19	6.6	100,939	450,322	-13,558
09/26/19	6.3	88,007	463,254	-12,931
09/27/19	5.9	71,748	479,513	-16,259
09/28/19	5.8	67,875	483,386	-3,873
09/29/19	6.1	79,735	471,526	11,860
09/30/19	6.5	96,558	454,703	16,823

Bay 2 (South Impoundment)

Date	Manual Reading from Impoundment (ft)	South Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
08/31/19	5.0	41,144	515,870	0
09/01/19	5.0	41,144	515,870	0
09/02/19	5.0	41,144	515,870	0
09/03/19	5.0	41,144	515,870	0
09/04/19	5.0	41,144	515,870	0
09/05/19	5.0	41,144	515,870	0
09/06/19	5.1	44,533	512,481	3,389
09/07/19	5.1	44,533	512,481	0
09/08/19	5.1	44,533	512,481	0
09/09/19	5.0	41,144	515,870	-3,389
09/10/19	5.0	41,144	515,870	0
09/11/19	5.1	44,533	512,481	3,389
09/12/19	5.3	51,511	505,503	6,978
09/13/19	5.4	55,101	501,913	3,590
09/14/19	5.5	58,757	498,257	3,657
09/15/19	5.5	58,757	498,257	0
09/16/19	5.5	58,757	498,257	0
09/17/19	5.5	58,757	498,257	0
09/18/19	5.5	58,757	498,257	0
09/19/19	5.5	58,757	498,257	0
09/20/19	5.5	58,757	498,257	0
09/21/19	5.5	58,757	498,257	0
09/22/19	5.5	58,757	498,257	0
09/23/19	5.5	58,757	498,257	0
09/24/19	5.5	58,757	498,257	0
09/25/19	5.5	58,757	498,257	0
09/26/19	5.5	58,757	498,257	0
09/27/19	5.5	58,757	498,257	0
09/28/19	5.5	58,757	498,257	0
09/29/19	5.5	58,757	498,257	0
09/30/19	5.5	58,757	498,257	0

Total Change in Leachate Volume (gal)	Disposed (gal)	Total Leachate Generation (gal)
-6,839	0	-6,839
14,007	0	14,007
15,327	0	15,327
16,545	49,572	66,117
-12,513	49,377	36,864
-15,651	49,584	33,933
-7,488	35,290	27,802
-6,839	0	-6,839
14,007	0	14,007
11,938	29,751	41,689
-3,955	43,606	39,651
-7,983	64,336	56,353
3,353	42,975	46,328
47,777	42,931	90,708
-724	0	-724
27,329	0	27,329
19,678	42,502	62,180
-5,032	49,388	44,356
-14,646	49,179	34,533
-13,979	49,395	35,416
-13,349	42,226	28,877
-8,551	0	-8,551
17,381	0	17,381
13,768	42,643	56,411
-4,659	49,889	45,230
-13,558	49,352	35,794
-12,931	49,842	36,911
-16,259	35,341	19,082
-3,873	0	-3,873
11,860	0	11,860
16,823	49,501	66,324

Total Leachate Collected	**984,482**
Secondary Leachate Collected	2,066
Total Primary Collected	982,416
Total Gallons Hauled	916,680

Hyland Facility Associates
Angelica, NY

Daily Leachate Tracking September 2019

Date	Secondary Liquid Cell 1 A/B Meter Reading	Secondary Liquid Cell 1 A/B Daily Flow	Secondary Liquid Cell 1 C/D Meter Reading	Secondary Liquid Cell 1 C/D Daily Flow	Secondary Liquid Cell 2 E/F Meter Reading	Secondary Liquid Cell 2 E/F Daily Flow	Secondary Liquid Cell 2 G/H Meter Reading	Secondary Liquid Cell 2 G/H Daily Flow	Secondary Liquid Cell 3 Totalize Reading gals	Secondary Liquid Cell 3 Daily Flow gals	Secondary Liquid Cell 4 Totalizer Reading gals	Secondary Liquid Cell 4 Daily Flow gals	Secondary Liquid Cell 5 A/B Totalizer Reading gals	Secondary Liquid Cell 5 A/B Daily Flow gals	North Impound-ment Bay Totalizer Reading gals	North Impound-ment Bay Daily Flow gals	South Impound-ment Bay Totalizer Reading gals	South Impound-ment Bay Daily Flow gals
08/31/19	629977	0	91874	0	324590	0	197193	0	8038468	0	363666	0	55568	231	8572121	0	4362869	0
09/01/19	629977	0	91874	0	324598	8	197193	0	8038468	0	363666	0	55568	0	8572121	0	4362869	0
09/02/19	629977	0	91874	0	324598	0	197226	33	8038468	0	363666	0	55568	0	8572121	0	4362869	0
09/03/19	629977	0	91874	0	324598	0	197226	0	8038468	0	363666	0	55568	0	8572121	0	4362869	0
09/04/19	629977	0	91874	0	324598	0	197226	0	8038766	298	363666	0	55795	227	8572121	0	4362869	0
09/05/19	629977	0	91874	0	324598	0	197226	0	8038766	0	363666	0	55795	0	8572121	0	4362869	0
09/06/19	629977	0	91874	0	324598	0	197226	0	8038766	0	363666	0	55795	0	8572121	0	4362869	0
09/07/19	629977	0	91874	0	324598	0	197226	0	8038766	0	363666	0	55979	184	8572121	0	4362869	0
09/08/19	629978	1	91874	0	324599	1	197226	0	8038766	0	363666	0	55979	0	8572121	0	4362869	0
09/09/19	629978	0	91874	0	324599	0	197226	0	8038766	0	363666	0	55979	0	8572121	0	4362869	0
09/10/19	630039	61	91874	0	324599	0	197226	0	8038766	0	363666	0	55979	0	8572121	0	4362869	0
09/11/19	630039	0	91874	0	324599	0	197226	0	8038766	0	363666	0	56197	218	8572121	0	4362869	0
09/12/19	630039	0	91874	0	324599	0	197226	0	8038766	0	363666	0	56197	0	8572121	0	4362869	0
09/13/19	630039	0	91874	0	324599	0	197260	34	8038766	0	363666	0	56197	0	8572121	0	4362869	0
09/14/19	630040	1	91944	70	324608	9	197293	33	8038766	0	363938	272	56197	0	8572121	0	4362869	0
09/15/19	630040	0	91944	0	324608	0	197293	0	8038766	0	363938	0	56594	397	8572121	0	4362869	0
09/16/19	630040	0	91944	0	324608	0	197293	0	8038766	0	363938	0	56594	0	8572121	0	4362869	0
09/17/19	630040	0	91944	0	324608	0	197293	0	8038766	0	363938	0	56594	0	8572121	0	4362869	0
09/18/19	630040	0	91944	0	324608	0	197293	0	8038766	0	363938	0	56594	0	8572121	0	4362869	0
09/19/19	630040	0	91944	0	324608	0	197293	0	8038766	0	363938	0	56594	0	8572121	0	4362869	0
09/20/19	630040	0	91944	0	324608	0	197293	0	8038766	0	363938	0	56651	57	8572121	0	4362869	0
09/21/19	630041	1	91944	0	324617	9	197293	0	8038766	0	363938	0	56759	108	8572121	0	4362869	0
09/22/19	630041	0	91944	0	324617	0	197327	34	8038766	0	363938	0	56759	0	8572121	0	4362869	0
09/23/19	630041	0	91944	0	324617	0	197327	0	8038766	0	363938	0	56759	0	8572121	0	4362869	0
09/24/19	630041	0	91944	0	324617	0	197327	0	8038766	0	363938	0	56759	0	8572121	0	4362869	0
09/25/19	630041	0	91944	0	324617	0	197327	0	8038766	0	363938	0	56759	0	8572121	0	4362869	0
09/26/19	630041	0	91944	0	324617	0	197327	0	8038766	0	363938	0	56759	0	8572121	0	4362869	0
09/27/19	630041	0	91944	0	324617	0	197327	0	8038766	0	363938	0	56759	0	8572121	0	4362869	0
09/28/19	630041	0	91944	0	324621	4	197327	0	8038772	6	363938	0	56759	0	8572121	0	4362869	0
09/29/19	630041	0	91944	0	324621	0	197327	0	8038772	0	363938	0	56759	0	8572121	0	4362869	0
09/30/19	630041	0	91944	0	324621	0	197327	0	8038772	0	363938	0	56759	0	8572121	0	4362869	0
	A/B ALR:	**0.2**	**C/D ALR:**	**0.3**	**E/F ALR:**	**0.1**	**G/H ALR:**	**1.0**	**Cell 3 ALR**	**1.0**	**Cell 4 ALR**	**1.0**	**Cell 5 A/B ALR**	**3.1**	**N IMP Sec**	**0.00**	**S IMP Sec**	**0.00**
	Total A/B:	64	*Total C/D:*	70	*Total: E/F:*	31	*Total G/H:*	134	*Total Cell 3:*	304	*Total Cell 4:*	272	*Total Cell 5 A/B:*	1191	*Total North:*	0	*Total South:*	0

Secondary Total: 2066

Hyland Facility Associates **Daily Leachate Tracking October 2019**

Bay 1 (North Impoundment)

Date	Manual Reading from Impoundment (ft)	North Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
09/30/19	6.5	96,558	454,703	16,823
10/01/19	6.2	83,836	467,425	-12,722
10/02/19	5.8	67,875	483,386	-15,961
10/03/19	5.5	56,751	494,510	-11,124
10/04/19	5.2	46,369	504,892	-10,382
10/05/19	5.0	39,861	511,400	-6,509
10/06/19	5.4	53,208	498,053	13,347
10/07/19	6.1	79,735	471,526	26,527
10/08/19	7.0	119,156	432,105	39,421
10/09/19	7.4	138,533	412,728	19,377
10/10/19	7.3	133,576	417,685	-4,957
10/11/19	7.1	123,887	427,374	-9,688
10/12/19	6.9	114,497	436,764	-9,390
10/13/19	7.2	128,694	422,567	14,197
10/14/19	7.6	148,673	402,588	19,979
10/15/19	7.2	128,694	422,567	-19,979
10/16/19	7.0	119,156	432,105	-9,538
10/17/19	7.0	119,156	432,105	0
10/18/19	7.0	119,156	432,105	0
10/19/19	6.9	114,497	436,764	-4,659
10/20/19	7.3	133,576	417,685	19,079
10/21/19	7.7	153,856	397,405	20,280
10/22/19	7.7	153,856	397,405	0
10/23/19	7.9	164,447	386,814	10,591
10/24/19	7.7	153,856	397,405	-10,591
10/25/19	7.4	138,533	412,728	-15,323
10/26/19	7.3	133,576	417,685	-4,957
10/27/19	7.6	148,673	402,588	15,097
10/28/19	8.2	180,909	370,352	32,236
10/29/19	7.9	164,447	386,814	-16,462
10/30/19	7.5	143,565	407,696	-20,882
10/31/19	7.4	138,533	412,728	-5,032

Bay 2 (South Impoundment)

Date	Manual Reading from Impoundment (ft)	South Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
09/30/19	5.5	58,757	498,257	0
10/01/19	5.6	62,481	494,533	3,724
10/02/19	5.6	62,481	494,533	0
10/03/19	5.6	62,481	494,533	0
10/04/19	5.6	62,481	494,533	0
10/05/19	5.6	62,481	494,533	0
10/06/19	5.7	66,271	490,743	3,791
10/07/19	5.8	70,129	486,885	3,857
10/08/19	5.9	74,053	482,961	3,924
10/09/19	5.9	74,053	482,961	0
10/10/19	5.9	74,053	482,961	0
10/11/19	5.9	74,053	482,961	0
10/12/19	5.9	74,053	482,961	0
10/13/19	5.9	74,053	482,961	0
10/14/19	5.9	74,053	482,961	0
10/15/19	5.9	74,053	482,961	0
10/16/19	5.9	74,053	482,961	0
10/17/19	6.0	78,045	478,969	3,991
10/18/19	6.1	82,105	474,909	4,061
10/19/19	6.1	82,105	474,909	0
10/20/19	6.1	82,105	474,909	0
10/21/19	6.1	82,105	474,909	0
10/22/19	6.1	82,105	474,909	0
10/23/19	6.2	86,237	470,777	4,132
10/24/19	6.2	86,237	470,777	0
10/25/19	6.3	90,440	466,574	4,203
10/26/19	6.3	90,440	466,574	0
10/27/19	6.3	90,440	466,574	0
10/28/19	6.4	94,714	462,300	4,274
10/29/19	6.4	94,714	462,300	0
10/30/19	6.4	94,714	462,300	0
10/31/19	6.4	94,714	462,300	0

Total Change in Leachate Volume (gal)	Disposed (gal)	Total Leachate Generation (gal)
16,823	49,501	66,324
-8,998	49,598	40,600
-15,961	47,259	31,298
-11,124	49,546	38,422
-10,382	42,877	32,495
-6,509	0	-6,509
17,138	0	17,138
30,385	49,623	80,008
43,345	49,581	92,926
19,377	42,210	61,587
-4,957	49,490	44,533
-9,688	42,083	32,395
-9,390	0	-9,390
14,197	0	14,197
19,979	56,445	76,424
-19,979	42,504	22,525
-9,538	42,589	33,051
3,991	49,864	53,855
4,061	42,399	46,460
-4,659	0	-4,659
19,079	0	19,079
20,280	28,297	48,577
0	42,453	42,453
14,723	49,313	64,036
-10,591	56,589	45,998
-11,120	42,447	31,327
-4,957	7,035	2,078
15,097	0	15,097
36,510	56,481	92,991
-16,462	63,345	46,883
-20,882	42,278	21,396
-5,032	56,466	51,434

Total Leachate Collected	**1,178,703**
Secondary Leachate Collected	2,237
Total Primary Collected	1,176,466
Total Gallons Hauled	1,100,772

Hyland Facility Associates
Angelica, NY

Daily Leachate Tracking October 2019

Date	Secondary Liquid Cell 1 A/B Meter Reading	Secondary Liquid Cell 1 A/B Daily Flow	Secondary Liquid Cell 1 C/D Meter Reading	Secondary Liquid Cell 1 C/D Daily Flow	Secondary Liquid Cell 2 E/F Meter Reading	Secondary Liquid Cell 2 E/F Daily Flow	Secondary Liquid Cell 2 G/H Meter Reading	Secondary Liquid Cell 2 G/H Daily Flow	Secondary Liquid Cell 3 Totalize Reading gals	Secondary Liquid Cell 3 Daily Flow gals	Secondary Liquid Cell 4 Totalizer Reading gals	Secondary Liquid Cell 4 Daily Flow gals	Secondary Liquid Cell 5 A/B Totalizer Reading gals	Secondary Liquid Cell 5 A/B Daily Flow gals	North Impound-ment Bay Totalizer Reading gals	North Impound-ment Bay Daily Flow gals	South Impound-ment Bay Totalizer Reading gals	South Impound-ment Bay Daily Flow gals
09/30/19	630041	0	91944	0	324621	0	197327	0	8038772	0	363938	0	56759	0	8572121	0	4362869	0
10/01/19	630041	0	91944	0	324621	0	197327	0	8038772	0	363938	0	56759	0	8572121	0	4362869	0
10/02/19	630041	0	91944	0	324621	0	197327	0	8039062	290	363938	0	56759	0	8572121	0	4362869	0
10/03/19	630041	0	91944	0	324621	0	197360	33	8039062	0	363938	0	56759	0	8572121	0	4362869	0
10/04/19	630041	0	91944	0	324630	9	197360	0	8039062	0	363938	0	56759	0	8572121	0	4362869	0
10/05/19	630041	0	91944	0	324630	0	197360	0	8039062	0	363938	0	56759	0	8572121	0	4362869	0
10/06/19	630041	0	91944	0	324630	0	197360	0	8039062	0	364206	268	56759	0	8572121	0	4362869	0
10/07/19	630041	0	91944	0	324630	0	197360	0	8039062	0	364206	0	56759	0	8572121	0	4362869	0
10/08/19	630041	0	91944	0	324630	0	197360	0	8039062	0	364206	0	56759	0	8572121	0	4362869	0
10/09/19	630041	0	91944	0	324630	0	197393	33	8039062	0	364206	0	56759	0	8572121	0	4362869	0
10/10/19	630041	0	91944	0	324630	0	197393	0	8039062	0	364206	0	56759	0	8572121	0	4362869	0
10/11/19	630041	0	91944	0	324630	0	197393	0	8039062	0	364206	0	56759	0	8572121	0	4362869	0
10/12/19	630041	0	91944	0	324630	0	197393	0	8039062	0	364206	0	56759	0	8572121	0	4362869	0
10/13/19	630041	0	91944	0	324630	0	197393	0	8039062	0	364206	0	56759	0	8572121	0	4362869	0
10/14/19	630041	0	91944	0	324630	0	197393	0	8039062	0	364206	0	56759	0	8572121	0	4362869	0
10/15/19	630041	0	91944	0	324630	0	197393	0	8039062	0	364206	0	56759	0	8572121	0	4362869	0
10/16/19	630041	0	91944	0	324630	0	197393	0	8039062	0	364206	0	56759	0	8572121	0	4362869	0
10/17/19	630041	0	91944	0	324630	0	197393	0	8039062	0	364206	0	57459	700	8572121	0	4362869	0
10/18/19	630041	0	91944	0	324792	162	197393	0	8039062	0	364206	0	57459	0	8572121	0	4362869	0
10/19/19	630041	0	91944	0	324792	0	197426	33	8039062	0	364206	0	57459	0	8572121	0	4362869	0
10/20/19	630041	0	92012	68	324792	0	197426	0	8039062	0	364206	0	57459	0	8572121	0	4362869	0
10/21/19	630041	0	92012	0	324792	0	197426	0	8039062	0	364206	0	57459	0	8572121	0	4362869	0
10/22/19	630041	0	92012	0	324792	0	197426	0	8039062	0	364515	309	57459	0	8572121	0	4362869	0
10/23/19	630041	0	92012	0	324792	0	197426	0	8039062	0	364515	0	57459	0	8572121	0	4362869	0
10/24/19	630041	0	92012	0	324792	0	197426	0	8039062	0	364515	0	57459	0	8572121	0	4362869	0
10/25/19	630042	1	92012	0	324801	9	197426	0	8039062	0	364515	0	57459	0	8572121	0	4362869	0
10/26/19	630042	0	92012	0	324801	0	197426	0	8039062	0	364515	0	57459	0	8572121	0	4362869	0
10/27/19	630042	0	92012	0	324801	0	197426	0	8039351	289	364515	0	57459	0	8572121	0	4362869	0
10/28/19	630042	0	92012	0	324801	0	197459	33	8039351	0	364515	0	57459	0	8572121	0	4362869	0
10/29/19	630042	0	92012	0	324801	0	197459	0	8039351	0	364515	0	57459	0	8572121	0	4362869	0
10/30/19	630042	0	92012	0	324801	0	197459	0	8039351	0	364515	0	57459	0	8572121	0	4362869	0
10/31/19	630042	0	92012	0	324801	0	197459	0	8039351	0	364515	0	57459	0	8572121	0	4362869	0
	A/B ALR:	**0.0**	**C/D ALR:**	**0.3**	**E/F ALR:**	**0.8**	**G/H ALR:**	**1.0**	**Cell 3 ALR**	**1.9**	**Cell 4 ALR**	**2.0**	**Cell 5 A/B ALR**	**1.7**	**N IMP Sec**	**0.00**	**S IMP Sec**	**0.00**
	Total A/B:	1	*Total C/D:*	68	*Total: E/F:*	180	*Total G/H:*	132	*Total Cell 3:*	579	*Total Cell 4:*	577	*Total Cell 5 A/B:*	700	*Total North:*	0	*Total South:*	0

Secondary Total: 2237

Hyland Facility Associates **Daily Leachate Tracking November 2019**

Bay 1 (North Impoundment)

Date	Manual Reading from Impoundment (ft)	North Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
10/31/19	7.4	138,533	412,728	-5,032
11/01/19	7.7	153,856	397,405	15,323
11/02/19	8.0	169,856	381,405	16,000
11/03/19	8.6	203,979	347,282	34,123
11/04/19	9.1	234,627	316,634	30,648
11/05/19	8.9	222,125	329,136	-12,502
11/06/19	8.5	198,091	353,170	-24,034
11/07/19	8.3	186,556	364,705	-11,535
11/08/19	8.0	169,856	381,405	-16,700
11/09/19	7.7	153,856	397,405	-16,000
11/10/19	8.1	175,342	375,919	21,487
11/11/19	8.4	192,283	358,978	16,941
11/12/19	8.1	175,342	375,919	-16,941
11/13/19	7.6	148,673	402,588	-26,669
11/14/19	7.3	133,576	417,685	-15,097
11/15/19	6.9	114,497	436,764	-19,079
11/16/19	6.5	96,558	454,703	-17,939
11/17/19	6.8	109,908	441,353	13,349
11/18/19	7.2	128,694	422,567	18,786
11/19/19	6.5	96,558	454,703	-32,135
11/20/19	5.8	67,875	483,386	-28,683
11/21/19	5.7	64,085	487,176	-3,791
11/22/19	5.4	53,208	498,053	-10,877
11/23/19	5.4	53,208	498,053	0
11/24/19	5.4	53,208	498,053	0
11/25/19	5.4	53,208	498,053	0
11/26/19	5.4	53,208	498,053	0
11/27/19	5.3	49,747	501,514	-3,461
11/28/19	5.4	53,208	498,053	3,461
11/29/19	5.4	53,208	498,053	0
11/30/19	5.4	53,208	498,053	0

Bay 2 (South Impoundment)

Date	Manual Reading from Impoundment (ft)	South Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
10/31/19	6.4	94,714	462,300	0
11/01/19	6.7	107,963	449,051	13,249
11/02/19	6.7	107,963	449,051	0
11/03/19	6.7	107,963	449,051	0
11/04/19	6.7	107,963	449,051	0
11/05/19	6.7	107,963	449,051	0
11/06/19	6.8	112,521	444,492	4,559
11/07/19	6.8	112,521	444,492	0
11/08/19	6.8	112,521	444,492	0
11/09/19	6.8	112,521	444,492	0
11/10/19	6.8	112,521	444,492	0
11/11/19	6.8	112,521	444,492	0
11/12/19	6.9	117,151	439,863	4,630
11/13/19	6.9	117,151	439,863	0
11/14/19	6.9	117,151	439,863	0
11/15/19	7.0	121,852	435,162	4,701
11/16/19	7.0	121,852	435,162	0
11/17/19	7.0	121,852	435,162	0
11/18/19	7.0	121,852	435,162	0
11/19/19	7.0	121,852	435,162	0
11/20/19	7.1	126,627	430,387	4,774
11/21/19	7.1	126,627	430,387	0
11/22/19	6.9	117,151	439,863	-9,475
11/23/19	6.7	107,963	449,051	-9,189
11/24/19	7.1	126,627	430,387	18,664
11/25/19	7.1	126,627	430,387	0
11/26/19	7.1	126,627	430,387	0
11/27/19	6.9	117,151	439,863	-9,475
11/28/19	6.4	94,714	462,300	-22,438
11/29/19	6.8	112,521	444,492	17,808
11/30/19	6.6	103,475	453,539	-9,046

Total Change in Leachate Volume (gal)	Disposed (gal)	Total Leachate Generation (gal)
-5,032	56466	51,434
28,572	49,243	77,815
16,000	0	16,000
34,123	0	34,123
30,648	49,441	80,089
-12,502	63,567	51,065
-19,476	49,287	29,811
-11,535	56,903	45,368
-16,700	49,582	32,882
-16,000	0	-16,000
21,487	0	21,487
16,941	56,618	73,559
-12,311	63,754	51,443
-26,669	56,045	29,376
-15,097	56,778	41,681
-14,378	56,609	42,231
-17,939	0	-17,939
13,349	0	13,349
18,786	78,052	96,838
-32,135	63,944	31,809
-23,909	42,288	18,379
-3,791	63,726	59,935
-20,352	49,869	29,517
-9,189	0	-9,189
18,664	0	18,664
0	49,190	49,190
0	42,133	42,133
-12,936	56,134	43,198
-18,977	0	-18,977
17,808	42,327	60,135
-9,046	0	-9,046

Total Leachate Collected	**1,018,927**
Secondary Leachate Collected	2,602
Total Primary Collected	1,016,325
Total Gallons Hauled	1,095,490

Hyland Facility Associates
Angelica, NY

Daily Leachate Tracking November 2019

Date	Secondary Liquid Cell 1 A/B Meter Reading	Secondary Liquid Cell 1 A/B Daily Flow	Secondary Liquid Cell 1 C/D Meter Reading	Secondary Liquid Cell 1 C/D Daily Flow	Secondary Liquid Cell 2 E/F Meter Reading	Secondary Liquid Cell 2 E/F Daily Flow	Secondary Liquid Cell 2 G/H Meter Reading	Secondary Liquid Cell 2 G/H Daily Flow	Secondary Liquid Cell 3 Totalize Reading gals	Secondary Liquid Cell 3 Daily Flow gals	Secondary Liquid Cell 4 Totalizer Reading gals	Secondary Liquid Cell 4 Daily Flow gals	Secondary Liquid Cell 5 A/B Totalizer Reading gals	Secondary Liquid Cell 5 A/B Daily Flow gals	North Impound-ment Bay Totalizer Reading gals	North Impound-ment Bay Daily Flow gals	South Impound-ment Bay Totalizer Reading gals	South Impound-ment Bay Daily Flow gals
10/31/19	630042	0	92012	0	324801	0	197459	0	8039351	0	364515	0	57459	0	8572121	0	4362869	0
11/01/19	630042	0	92012	0	324801	0	197492	33	8039351	0	364515	0	58191	732	8572121	0	4362869	0
11/02/19	630042	0	92012	0	324801	0	197492	0	8039351	0	364515	0	58191	0	8572121	0	4362869	0
11/03/19	630042	0	92012	0	324801	0	197492	0	8039351	0	364515	0	58191	0	8572121	0	4362869	0
11/04/19	630042	0	92012	0	324801	0	197492	0	8039351	0	364515	0	58191	0	8572121	0	4362869	0
11/05/19	630042	0	92012	0	324801	0	197492	0	8039351	0	364515	0	58191	0	8572121	0	4362869	0
11/06/19	630042	0	92012	0	324801	0	197525	33	8039351	0	364515	0	58191	0	8572121	0	4362869	0
11/07/19	630042	0	92012	0	324801	0	197525	0	8039351	0	364515	0	58191	0	8572121	0	4362869	0
11/08/19	630042	0	92012	0	324801	0	197525	0	8039351	0	364515	0	58191	0	8572121	0	4362869	0
11/09/19	630042	0	92012	0	324809	8	197526	1	8039351	0	364515	0	58191	0	8572121	0	4362869	0
11/10/19	630042	0	92012	0	324809	0	197526	0	8039351	0	364515	0	58191	0	8572121	0	4362869	0
11/11/19	630042	0	92012	0	324809	0	197526	0	8039351	0	364515	0	58191	0	8572121	0	4362869	0
11/12/19	630042	0	92012	0	324809	0	197526	0	8039636	285	364515	0	58191	0	8572121	0	4362869	0
11/13/19	630042	0	92012	0	324809	0	197558	32	8039636	0	364515	0	58191	0	8572121	0	4362869	0
11/14/19	630042	0	92012	0	324809	0	197558	0	8039636	0	364515	0	58191	0	8572121	0	4362869	0
11/15/19	630042	0	92012	0	324809	0	197558	0	8039636	0	364515	0	58191	0	8572121	0	4362869	0
11/16/19	630042	0	92012	0	324809	0	197558	0	8039641	5	364515	0	58193	2	8572121	0	4362869	0
11/17/19	630042	0	92012	0	324809	0	197558	0	8039641	0	364515	0	58193	0	8572121	0	4362869	0
11/18/19	630042	0	92012	0	324809	0	197558	0	8039641	0	364515	0	58193	0	8572121	0	4362869	0
11/19/19	630042	0	92012	0	324809	0	197558	0	8039641	0	364787	272	58915	722	8572121	0	4362869	0
11/20/19	630042	0	92012	0	324809	0	197589	31	8039641	0	364787	0	58915	0	8572121	0	4362869	0
11/21/19	630042	0	92012	0	324809	0	197589	0	8039641	0	364787	0	58915	0	8572121	0	4362869	0
11/22/19	630042	0	92012	0	324809	0	197589	0	8039641	0	364787	0	58915	0	8572121	0	4362869	0
11/23/19	630044	2	92014	2	324823	14	197596	7	8039646	5	364790	3	58920	5	8572121	0	4362869	0
11/24/19	630044	0	92014	0	324823	0	197596	0	8039646	0	364790	0	58920	0	8572121	0	4362869	0
11/25/19	630044	0	92014	0	324823	0	197596	0	8039646	0	364790	0	58920	0	8572121	0	4362869	0
11/26/19	630044	0	92014	0	324823	0	197596	0	8039646	0	364790	0	58920	0	8572121	0	4362869	0
11/27/19	630044	0	92014	0	324823	0	197596	0	8039646	0	364790	0	58920	0	8572121	0	4362869	0
11/28/19	630044	0	92014	0	324910	87	197627	31	8039919	273	364790	0	58920	0	8572121	0	4362869	0
11/29/19	630044	0	92014	0	324910	0	197627	0	8039919	0	364790	0	58920	0	8572121	0	4362869	0
11/30/19	630046	2	92015	1	324918	8	197628	1	8039923	4	364791	1	58920	0	8572121	0	4362869	0
	A/B ALR:	**0.0**	**C/D ALR:**	**0.0**	**E/F ALR:**	**0.6**	**G/H ALR:**	**1.3**	**Cell 3 ALR**	**2.0**	**Cell 4 ALR**	**1.0**	**Cell 5 A/B ALR**	**3.7**	**N IMP Sec**	**0.00**	**S IMP Sec**	**0.00**
	Total A/B:	4	*Total C/D:*	3	*Total: E/F:*	117	*Total G/H:*	169	*Total Cell 3:*	572	*Total Cell 4:*	276	*Total Cell 5 A/B:*	1461	*Total North:*	0	*Total South:*	0

Secondary Total: 2602

Hyland Facility Associates **Daily Leachate Tracking December 2019**

Bay 1 (North Impoundment)

Date	Reading from Impoundment (ft)	North Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
11/30/19	5.4	53,208	498,053	0
12/01/19	5.4	53,208	498,053	0
12/02/19	5.4	53,208	498,053	0
12/03/19	5.5	56,751	494,510	3,543
12/04/19	5.5	56,751	494,510	0
12/05/19	5.5	56,751	494,510	0
12/06/19	5.5	56,751	494,510	0
12/07/19	5.5	56,751	494,510	0
12/08/19	5.5	56,751	494,510	0
12/09/19	5.5	56,751	494,510	0
12/10/19	5.7	64,085	487,176	7,334
12/11/19	5.7	64,085	487,176	0
12/12/19	5.7	64,085	487,176	0
12/13/19	5.7	64,085	487,176	0
12/14/19	5.7	64,085	487,176	0
12/15/19	5.8	67,875	483,386	3,791
12/16/19	5.8	67,875	483,386	0
12/17/19	5.8	67,875	483,386	0
12/18/19	5.9	71,748	479,513	3,873
12/19/19	5.9	71,748	479,513	0
12/20/19	5.9	71,748	479,513	0
12/21/19	5.9	71,748	479,513	0
12/22/19	5.9	71,748	479,513	0
12/23/19	5.9	71,748	479,513	0
12/24/19	5.9	71,748	479,513	0
12/25/19	6.0	75,704	475,557	3,955
12/26/19	6.0	75,704	475,557	0
12/27/19	6.0	75,704	475,557	0
12/28/19	6.0	75,704	475,557	0
12/29/19	6.0	75,704	475,557	0
12/30/19	6.1	79,735	471,526	4,032
12/31/19	6.1	79,735	471,526	0

Bay 2 (South Impoundment)

Date	Reading from Impoundment (ft)	South Bay Leachate Level (gal)	Leachate Capacity to Overflow (gal)	Daily Change in Leachate Volume (gal)
11/30/19	6.6	103,475	453,539	-9,046
12/01/19	6.9	117,151	439,863	13,676
12/02/19	7.3	136,403	420,611	19,252
12/03/19	7.3	136,403	420,611	0
12/04/19	6.9	117,151	439,863	-19,252
12/05/19	6.7	107,963	449,051	-9,189
12/06/19	6.4	94,714	462,300	-13,249
12/07/19	6.0	78,045	478,969	-16,669
12/08/19	6.3	90,440	466,574	12,395
12/09/19	6.7	107,963	449,051	17,523
12/10/19	6.6	103,475	453,539	-4,488
12/11/19	6.6	103,475	453,539	0
12/12/19	6.3	90,440	466,574	-13,036
12/13/19	6.2	86,237	470,777	-4,203
12/14/19	6.0	78,045	478,969	-8,192
12/15/19	6.5	99,059	457,955	21,014
12/16/19	7.0	121,852	435,162	22,793
12/17/19	6.8	112,521	444,492	-9,331
12/18/19	6.6	103,475	453,539	-9,046
12/19/19	6.4	94,714	462,300	-8,762
12/20/19	6.1	82,105	474,909	-12,609
12/21/19	5.8	70,129	486,885	-11,976
12/22/19	6.3	90,440	466,574	20,311
12/23/19	6.7	107,963	449,051	17,523
12/24/19	6.3	90,440	466,574	-17,523
12/25/19	6.0	78,045	478,969	-12,395
12/26/19	6.4	94,714	462,300	16,669
12/27/19	6.1	82,105	474,909	-12,609
12/28/19	5.9	74,053	482,961	-8,052
12/29/19	6.4	94,714	462,300	20,660
12/30/19	7.0	121,852	435,162	27,139
12/31/19	6.7	107,963	449,051	-13,890

Total Change in Leachate Volume (gal)	Disposed (gal)	Total Leachate Generation (gal)
-9,046	0	-9,046
13,676	0	13,676
19,252	28,188	47,440
3,543	56,298	59,841
-19,252	48,923	29,671
-9,189	42,099	32,910
-13,249	49,322	36,073
-16,669	14,166	-2,503
12,395	0	12,395
17,523	49,205	66,728
2,846	42,332	45,178
0	56,043	56,043
-13,036	42,220	29,184
-4,203	49,530	45,327
-8,192	0	-8,192
24,805	0	24,805
22,793	49,341	72,134
-9,331	42,111	32,780
-5,173	42,184	37,011
-8,762	49,269	40,507
-12,609	49,079	36,470
-11,976	0	-11,976
20,311	0	20,311
17,523	56,602	74,125
-17,523	49,622	32,099
-8,440	0	-8,440
16,669	57,459	74,128
-12,609	42,141	29,532
-8,052	0	-8,052
20,660	0	20,660
31,170	56,458	87,628
-13,890	49,187	35,297

Total Leachate Collected	**1,052,794**
Secondary Leachate Collected	6,182
Total Primary Collected	1,046,612
Total Gallons Hauled	1,021,779

Hyland Facility Associates
Angelica, NY

Daily Leachate Tracking December 2019

Daily Leachate Tracking December 2019

Date	Secondary Liquid Cell 1 A/B Meter Reading	Secondary Liquid Cell 1 A/B Daily Flow	Secondary Liquid Cell 1 C/D Meter Reading	Secondary Liquid Cell 1 C/D Daily Flow	Secondary Liquid Cell 2 E/F Meter Reading	Secondary Liquid Cell 2 E/F Daily Flow	Secondary Liquid Cell 2 G/H Meter Reading	Secondary Liquid Cell 2 G/H Daily Flow	Secondary Liquid Cell 3 Totalize Reading gals	Secondary Liquid Cell 3 Daily Flow gals	Secondary Liquid Cell 4 Totalizer Reading gals	Secondary Liquid Cell 4 Daily Flow gals	Secondary Liquid Cell 5 A/B Totalizer Reading gals	Secondary Liquid Cell 5 A/B Daily Flow gals	North Impound-ment Bay Totalizer Reading gals	North Impound-ment Bay Daily Flow gals	South Impound-ment Bay Totalizer Reading gals	South Impound-ment Bay Daily Flow gals
11/30/19	630046	2	92015	1	324918	8	197628	1	8039923	4	364791	1	58920	0	8572121	0	4362869	0
12/01/19	630046	0	92085	70	324918	0	197628	0	8039923	0	364791	0	58920	0	8572121	0	4362869	0
12/02/19	630046	0	92085	0	324918	0	197628	0	8039923	0	364791	0	59657	737	8572121	0	4362869	0
12/03/19	630046	0	92085	0	324918	0	197628	0	8039923	0	364791	0	59657	0	8572121	0	4362869	0
12/04/19	630046	0	92085	0	324918	0	197628	0	8039923	0	364791	0	59657	0	8572121	0	4362869	0
12/05/19	630107	61	92085	0	324918	0	197660	32	8039923	0	364791	0	59657	0	8572121	0	4362869	0
12/06/19	630109	2	92087	2	324918	0	197663	3	8039927	4	364796	5	59662	5	8572121	0	4362869	0
12/07/19	630109	0	92087	0	324918	0	197694	31	8039927	0	364796	0	59662	0	8572121	0	4362869	0
12/08/19	630109	0	92087	0	324918	0	197694	0	8039927	0	364796	0	59662	0	8572121	0	4362869	0
12/09/19	630109	0	92087	0	324918	0	197694	0	8039927	0	364796	0	59662	0	8572121	0	4362869	0
12/10/19	630114	5	92101	14	324939	21	197694	0	8040008	81	364831	35	60083	421	8572121	0	4362869	0
12/11/19	630114	0	92101	0	324939	0	197726	32	8040008	0	364831	0	60725	642	8572124	3	4362881	12
12/12/19	630114	0	92101	0	324939	0	197726	0	8040008	0	364831	0	60725	0	8572124	0	4362881	0
12/13/19	630116	2	92102	1	324947	8	197727	1	8040011	3	364831	0	60725	0	8572124	0	4362881	0
12/14/19	630116	0	92102	0	324947	0	197727	0	8040011	0	365132	301	60725	0	8572124	0	4362881	0
12/15/19	630116	0	92102	0	324947	0	197727	0	8040291	280	365132	0	60725	0	8572124	0	4362881	0
12/16/19	630116	0	92102	0	324947	0	197758	31	8040291	0	365132	0	61508	783	8572124	0	4362881	0
12/17/19	630116	0	92102	0	324947	0	197758	0	8040291	0	365132	0	61508	0	8572124	0	4362881	0
12/18/19	630116	0	92102	0	324947	0	197758	0	8040291	0	365132	0	61508	0	8572124	0	4362881	0
12/19/19	630116	0	92102	0	324947	0	197786	28	8040291	0	365132	0	61508	0	8572124	0	4362881	0
12/20/19	630118	2	92103	1	324956	9	197787	1	8040298	7	365132	0	61508	0	8572124	0	4362881	0
12/21/19	630118	0	92103	0	324956	0	197787	0	8040298	0	365132	0	61508	0	8572124	0	4362881	0
12/22/19	630118	0	92103	0	324956	0	197787	0	8040298	0	365132	0	62152	644	8572124	0	4362881	0
12/23/19	630118	0	92103	0	324956	0	197787	0	8040298	0	365132	0	62152	0	8572124	0	4362881	0
12/24/19	630118	0	92103	0	324956	0	197787	0	8040298	0	365133	1	62152	0	8572124	0	4362881	0
12/25/19	630118	0	92103	0	324956	0	197787	0	8040593	295	365132	-1	62748	596	8572124	0	4362881	0
12/26/19	630118	0	92103	0	324956	0	197820	33	8040593	0	365132	0	62748	0	8572124	0	4362881	0
12/27/19	630119	1	92104	1	324965	9	197820	0	8040595	2	365134	2	62748	0	8572124	0	4362881	0
12/28/19	630119	0	92104	0	324965	0	197820	0	8040595	0	365134	0	62748	0	8572124	0	4362881	0
12/29/19	630119	0	92104	0	324965	0	197820	0	8040595	0	365134	0	63344	596	8572124	0	4362881	0
12/30/19	630119	0	92104	0	324965	0	197820	0	8040595	0	365424	290	63344	0	8572124	0	4362881	0
12/31/19	630119	0	92104	0	324965	0	197857	37	8040595	0	365424	0	63344	0	8572124	0	4362881	0
	A/B ALR:	**0.2**	**C/D ALR:**	**0.3**	**E/F ALR:**	**0.2**	**G/H ALR:**	**1.7**	**Cell 3 ALR**	**2.2**	**Cell 4 ALR**	**2.1**	**Cell 5 A/B ALR**	**11.0**	**N IMP Sec**	**0.10**	**S IMP Sec**	**0.39**
	Total A/B:	73.0	*Total C/D:*	89.0	*Total: E/F:*	47.0	*Total G/H:*	229.0	*Total Cell 3:*	672.0	*Total Cell 4:*	633.0	*Total Cell 5 A/B:*	4424	*Total North:*	3	*Total South:*	12

Secondary Total: 6182

sRpDstGallons.rpt

Hyland Facility Associates

Destination Report

Destination: All

Transactions from 10/01/2019 through 10/31/2019
Outbound Tickets Only
Third Party and Intercompany Customers
Recycle and Disposal Material
Full Details

Ticket	Date	Truck	Trailer	In / Out		Bill Units	Cubic Yards	Tons
BWTP - OB / OUTBOUND / BELMONT								
301363	10/1/2019	ME102		O	7,178 GAL	0.00	0.00	7,178.00
301505	10/3/2019	ME102		O	7,183 GAL	0.00	0.00	7,183.00
301627	10/7/2019	ME102		O	7,181 GAL	0.00	0.00	7,181.00
301749	10/8/2019	ME102		O	7,174 GAL	0.00	0.00	7,174.00
301887	10/10/2019	ME102		O	7,150 GAL	0.00	0.00	7,150.00
301971	10/14/2019	ME102		O	7,159 GAL	0.00	0.00	7,159.00
302084	10/15/2019	ME102		O	7,157 GAL	0.00	0.00	7,157.00
302202	10/17/2019	ME102		O	7,140 GAL	0.00	0.00	7,140.00
302302	10/21/2019	ME102		O	7,188 GAL	0.00	0.00	7,188.00
302436	10/23/2019	ME102		O	7,142 GAL	0.00	0.00	7,142.00
302561	10/24/2019	ME102		O	7,107 GAL	0.00	0.00	7,107.00
302645	10/28/2019	ME102		O	7,174 GAL	0.00	0.00	7,174.00
302766	10/29/2019	ME015		O	7,183 GAL	0.00	0.00	7,183.00
302888	10/31/2019	ME015		O	7,188 GAL	0.00	0.00	7,188.00
BWTP - OB / OUTBOUND / BELMONT						0.00	0.00	100,304.00

14 tickets and 14 transactions

J - JAMESTOWN W W T P

301352	10/1/2019	MT14	O	7,159 GAL	0.00	0.00	7,159.00
301440	10/2/2019	MT14	O	7,246 GAL	0.00	0.00	7,246.00
301496	10/3/2019	MT14	O	7,059 GAL	0.00	0.00	7,059.00
301564	10/4/2019	MT14	O	6,987 GAL	0.00	0.00	6,987.00
301666	10/7/2019	MT14	O	7,095 GAL	0.00	0.00	7,095.00
301739	10/8/2019	MT14	O	7,049 GAL	0.00	0.00	7,049.00
301812	10/9/2019	MT14	O	7,056 GAL	0.00	0.00	7,056.00
301875	10/10/2019	MT14	O	7,025 GAL	0.00	0.00	7,025.00
301938	10/11/2019	M14	O	6,996 GAL	0.00	0.00	6,996.00

J - JAMESTOWN W W T P

302102	10/16/2019	MT14	O	7,051 GAL	0.00	0.00	7,051.00
302129	10/16/2019	MT14	O	7,042 GAL	0.00	0.00	7,042.00
302143	10/16/2019	MT14	O	7,123 GAL	0.00	0.00	7,123.00
302168	10/17/2019	MT14	O	7,056 GAL	0.00	0.00	7,056.00
302233	10/18/2019	MT14	O	7,030 GAL	0.00	0.00	7,030.00
302408	10/22/2019	MT14	O	7,018 GAL	0.00	0.00	7,018.00
302481	10/23/2019	MT14	O	7,044 GAL	0.00	0.00	7,044.00
302554	10/24/2019	MT32	O	7,468 GAL	0.00	0.00	7,468.00
302595	10/25/2019	MT32	O	7,471 GAL	0.00	0.00	7,471.00
302628	10/26/2019	MT14	O	7,035 GAL	0.00	0.00	7,035.00
302665	10/28/2019	MT14	O	7,099 GAL	0.00	0.00	7,099.00
302684	10/28/2019	MT14	O	7,071 GAL	0.00	0.00	7,071.00
302727	10/29/2019	MT14	O	7,056 GAL	0.00	0.00	7,056.00
302762	10/29/2019	MT14	O	7,035 GAL	0.00	0.00	7,035.00
302775	10/30/2019	MT14	O	7,008 GAL	0.00	0.00	7,008.00
302802	10/30/2019	MT14	O	7,071 GAL	0.00	0.00	7,071.00
302865	10/31/2019	MT14	O	7,066 GAL	0.00	0.00	7,066.00
J - JAMESTOWN W W T P					0.00	0.00	184,416.00

26 tickets and 26 transactions

TOC - TOWN OF CANEADEA WWTP

301318	10/1/2019	MT14	O	7,049 GAL	0.00	0.00	7,049.00
301338	10/1/2019	MT14	O	7,051 GAL	0.00	0.00	7,051.00
301457	10/3/2019	MT14	O	7,051 GAL	0.00	0.00	7,051.00

301479	10/3/2019	MT14	O	7,049 GAL	0.00	0.00	7,049.00
301532	10/4/2019	MT14	O	7,392 GAL	0.00	0.00	7,392.00
301546	10/4/2019	MT14	O	7,202 GAL	0.00	0.00	7,202.00
TOC - TOWN OF CANEADEA WWTP							
301638	10/7/2019	MT14	O	7,013 GAL	0.00	0.00	7,013.00
301648	10/7/2019	MT14	O	7,068 GAL	0.00	0.00	7,068.00
301703	10/8/2019	MT14	O	7,059 GAL	0.00	0.00	7,059.00
301720	10/8/2019	MT14	O	7,054 GAL	0.00	0.00	7,054.00
301846	10/10/2019	MT14	O	7,039 GAL	0.00	0.00	7,039.00
301867	10/10/2019	MT14	O	7,073 GAL	0.00	0.00	7,073.00
301916	10/11/2019	MT14	O	7,054 GAL	0.00	0.00	7,054.00
301926	10/11/2019	MT14	O	6,984 GAL	0.00	0.00	6,984.00
302006	10/14/2019	MT14	O	7,049 GAL	0.00	0.00	7,049.00
302012	10/14/2019	MT14	O	7,061 GAL	0.00	0.00	7,061.00
302036	10/15/2019	MT14	O	7,008 GAL	0.00	0.00	7,008.00
302079	10/15/2019	MT14	O	7,020 GAL	0.00	0.00	7,020.00
302156	10/17/2019	MT14	O	7,121 GAL	0.00	0.00	7,121.00
302200	10/17/2019	MT14	O	7,030 GAL	0.00	0.00	7,030.00
302218	10/18/2019	MT14	O	6,989 GAL	0.00	0.00	6,989.00
302265	10/18/2019	MT14	O	7,284 GAL	0.00	0.00	7,284.00
302366	10/22/2019	MT14	O	7,061 GAL	0.00	0.00	7,061.00
302393	10/22/2019	MT14	O	7,023 GAL	0.00	0.00	7,023.00
302521	10/24/2019	MT32	O	6,982 GAL	0.00	0.00	6,982.00
302541	10/24/2019	MT32	O	6,999 GAL	0.00	0.00	6,999.00
302566	10/25/2019	MT32	O	6,965 GAL	0.00	0.00	6,965.00
302580	10/25/2019	MT32	O	6,963 GAL	0.00	0.00	6,963.00
302642	10/28/2019	MT14	O	7,073 GAL	0.00	0.00	7,073.00
302654	10/28/2019	MT14	O	7,042 GAL	0.00	0.00	7,042.00
302693	10/29/2019	MT14	O	7,037 GAL	0.00	0.00	7,037.00
302711	10/29/2019	MT14	O	6,992 GAL	0.00	0.00	6,992.00
302839	10/31/2019	MT14	O	7,087 GAL	0.00	0.00	7,087.00
TOC - TOWN OF CANEADEA WWTP							
302854	10/31/2019	MT14	O	7,073 GAL	0.00	0.00	7,073.00
TOC - TOWN OF CANEADEA WWTP					0.00	0.00	239,997.00

34 tickets and 34 transactions

WWPT - WELLSVILLE NY WASTE WATER TREATM. PLANT

301313	10/1/2019	ME102	O	7,049 GAL	0.00	0.00	7,049.00
301333	10/1/2019	ME102	O	7,056 GAL	0.00	0.00	7,056.00
301349	10/1/2019	ME102	O	7,056 GAL	0.00	0.00	7,056.00
301384	10/2/2019	ME102	O	7,056 GAL	0.00	0.00	7,056.00
301389	10/2/2019	MT14	O	7,104 GAL	0.00	0.00	7,104.00
301403	10/2/2019	ME102	O	7,133 GAL	0.00	0.00	7,133.00
301409	10/2/2019	MT14	O	6,934 GAL	0.00	0.00	6,934.00
301419	10/2/2019	ME102	O	7,099 GAL	0.00	0.00	7,099.00
301439	10/2/2019	MTT14	O	4,687 GAL	0.00	0.00	4,687.00
301450	10/3/2019	ME102	O	7,075 GAL	0.00	0.00	7,075.00
301471	10/3/2019	ME102	O	7,054 GAL	0.00	0.00	7,054.00
301489	10/3/2019	ME102	O	7,075 GAL	0.00	0.00	7,075.00
301524	10/4/2019	ME102	O	7,083 GAL	0.00	0.00	7,083.00
301543	10/4/2019	ME102	O	7,133 GAL	0.00	0.00	7,133.00
301559	10/4/2019	ME102	O	7,080 GAL	0.00	0.00	7,080.00
301642	10/7/2019	ME102	O	7,087 GAL	0.00	0.00	7,087.00
301662	10/7/2019	ME102	O	7,049 GAL	0.00	0.00	7,049.00
301678	10/7/2019	ME102	O	7,130 GAL	0.00	0.00	7,130.00
301694	10/8/2019	ME102	O	7,111 GAL	0.00	0.00	7,111.00
301714	10/8/2019	ME102	O	7,066 GAL	0.00	0.00	7,066.00
301735	10/8/2019	ME102	O	7,068 GAL	0.00	0.00	7,068.00
301764	10/9/2019	ME102	O	7,011 GAL	0.00	0.00	7,011.00

WWPT - WELLSVILLE NY WASTE WATER TREATM. PLANT

301775	10/9/2019	MT14	O	7,073 GAL	0.00	0.00	7,073.00
301784	10/9/2019	ME102	O	7,085 GAL	0.00	0.00	7,085.00
301790	10/9/2019	MT14	O	6,905 GAL	0.00	0.00	6,905.00
301796	10/9/2019	ME102	O	7,080 GAL	0.00	0.00	7,080.00
301833	10/10/2019	ME102	O	7,035 GAL	0.00	0.00	7,035.00
301856	10/10/2019	ME102	O	7,049 GAL	0.00	0.00	7,049.00
301873	10/10/2019	ME102	O	7,119 GAL	0.00	0.00	7,119.00
301900	10/11/2019	ME102	O	7,119 GAL	0.00	0.00	7,119.00

301918	10/11/2019	ME102	O	6,970 GAL	0.00	0.00	6,970.00
301930	10/11/2019	ME102	O	6,960 GAL	0.00	0.00	6,960.00
301978	10/14/2019	ME102	O	7,054 GAL	0.00	0.00	7,054.00
301981	10/14/2019	MT14	O	6,996 GAL	0.00	0.00	6,996.00
301990	10/14/2019	ME102	O	7,054 GAL	0.00	0.00	7,054.00
301994	10/14/2019	MT14	O	7,006 GAL	0.00	0.00	7,006.00
302004	10/14/2019	ME102	O	7,066 GAL	0.00	0.00	7,066.00
302042	10/15/2019	ME102	O	7,128 GAL	0.00	0.00	7,128.00
302050	10/15/2019	MT14	O	7,020 GAL	0.00	0.00	7,020.00
302062	10/15/2019	ME102	O	7,171 GAL	0.00	0.00	7,171.00
302096	10/16/2019	ME102	O	7,152 GAL	0.00	0.00	7,152.00
302110	10/16/2019	ME102	O	7,138 GAL	0.00	0.00	7,138.00
302123	10/16/2019	ME102	O	7,083 GAL	0.00	0.00	7,083.00
302154	10/17/2019	ME102	O	7,162 GAL	0.00	0.00	7,162.00
302172	10/17/2019	ME102	O	7,181 GAL	0.00	0.00	7,181.00
302191	10/17/2019	ME102	O	7,174 GAL	0.00	0.00	7,174.00
302211	10/18/2019	ME102	O	7,039 GAL	0.00	0.00	7,039.00
302222	10/18/2019	ME102	O	7,049 GAL	0.00	0.00	7,049.00
302241	10/18/2019	ME102	O	7,008 GAL	0.00	0.00	7,008.00
WWPT - WELLSVILLE NY WASTE WATER TREATM. PLANT							
302311	10/21/2019	ME102	O	7,011 GAL	0.00	0.00	7,011.00
302322	10/21/2019	ME102	O	7,063 GAL	0.00	0.00	7,063.00
302333	10/21/2019	ME102	O	7,035 GAL	0.00	0.00	7,035.00
302363	10/22/2019	ME102	O	7,174 GAL	0.00	0.00	7,174.00
302385	10/22/2019	ME102	O	7,047 GAL	0.00	0.00	7,047.00
302415	10/22/2019	ME102	O	7,130 GAL	0.00	0.00	7,130.00
302448	10/23/2019	MT14	O	7,039 GAL	0.00	0.00	7,039.00
302450	10/23/2019	ME102	O	7,044 GAL	0.00	0.00	7,044.00
302465	10/23/2019	MT14	O	7,004 GAL	0.00	0.00	7,004.00
302470	10/23/2019	ME102	O	7,015 GAL	0.00	0.00	7,015.00
302484	10/23/2019	ME102	O	7,025 GAL	0.00	0.00	7,025.00
302501	10/24/2019	ME102	O	7,023 GAL	0.00	0.00	7,023.00
302513	10/24/2019	ME102	O	6,975 GAL	0.00	0.00	6,975.00

302533	10/24/2019	ME102	O	7,015 GAL	0.00	0.00	7,015.00
302547	10/24/2019	ME102	O	7,020 GAL	0.00	0.00	7,020.00
302563	10/25/2019	ME102	O	7,001 GAL	0.00	0.00	7,001.00
302576	10/25/2019	ME102	O	7,020 GAL	0.00	0.00	7,020.00
302593	10/25/2019	ME102	O	7,027 GAL	0.00	0.00	7,027.00
302657	10/28/2019	ME015	O	6,996 GAL	0.00	0.00	6,996.00
302669	10/28/2019	ME015	O	6,999 GAL	0.00	0.00	6,999.00
302682	10/28/2019	ME015	O	7,027 GAL	0.00	0.00	7,027.00
302690	10/29/2019	ME015	O	6,953 GAL	0.00	0.00	6,953.00
302716	10/29/2019	ME015	O	7,035 GAL	0.00	0.00	7,035.00
302731	10/29/2019	ME015	O	7,039 GAL	0.00	0.00	7,039.00
302748	10/29/2019	ME015	O	7,015 GAL	0.00	0.00	7,015.00
302772	10/30/2019	ME015	O	6,982 GAL	0.00	0.00	6,982.00
302787	10/30/2019	ME015	O	7,054 GAL	0.00	0.00	7,054.00
WWPT - WELLSVILLE NY WASTE WATER TREATM. PLANT							
302806	10/30/2019	ME015	O	7,059 GAL	0.00	0.00	7,059.00
302815	10/30/2019	ME015	O	7,104 GAL	0.00	0.00	7,104.00
302829	10/31/2019	ME015	O	7,063 GAL	0.00	0.00	7,063.00
302843	10/31/2019	ME015	O	6,975 GAL	0.00	0.00	6,975.00
302861	10/31/2019	ME015	O	6,960 GAL	0.00	0.00	6,960.00
302874	10/31/2019	ME015	O	7,054 GAL	0.00	0.00	7,054.00
WWPT - WELLSVILLE NY WASTE WATER TREATM					0.00	0.00	576,055.00

82 tickets and 82 transactions

Report Grand Totals

0.00	0.00	1,100,772.00

156 tickets and 156 transactions

End of Report

sRpDstGallons.rpt

Hyland Facility Associates

Destination: All

Destination Report

Transactions from 11/01/2019 through 11/30/2019
Outbound Tickets Only
Third Party and Intercompany Customers
Recycle and Disposal Material
Full Details

Ticket	Date	Truck	Trailer	In / Out	Bill Units	Cubic Yards	Tons
BWTP - OB / OUTBOUND / BELMONT							
303001	11/4/2019	ME015		O 7,183 GAL	0.00	0.00	7,183.00
303128	11/5/2019	ME015		O 7,178 GAL	0.00	0.00	7,178.00
303247	11/7/2019	ME102		O 7,178 GAL	0.00	0.00	7,178.00
303363	11/11/2019	ME102		O 6,956 GAL	0.00	0.00	6,956.00
303472	11/12/2019	ME102		O 7,157 GAL	0.00	0.00	7,157.00
303604	11/14/2019	ME102		O 7,183 GAL	0.00	0.00	7,183.00
303687	11/18/2019	ME0102		O 7,176 GAL	0.00	0.00	7,176.00
303807	11/19/2019	ME015		O 7,193 GAL	0.00	0.00	7,193.00
303928	11/21/2019	ME015		O 7,164 GAL	0.00	0.00	7,164.00
304039	11/25/2019	ME0015		O 7,176 GAL	0.00	0.00	7,176.00
304160	11/27/2019	ME015		O 7,174 GAL	0.00	0.00	7,174.00
304244	11/29/2019	ME102		O 7,130 GAL	0.00	0.00	7,130.00
BWTP - OB / OUTBOUND / BELMONT					0.00	0.00	85,848.00
12 tickets and 12 transactions							
J - JAMESTOWN W W T P							
302934	11/1/2019	MT14		O 7,037 GAL	0.00	0.00	7,037.00
302968	11/1/2019	MT14		O 7,126 GAL	0.00	0.00	7,126.00
303012	11/4/2019	MT2		O 7,066 GAL	0.00	0.00	7,066.00

303104	11/5/2019	MT2	O	7,078 GAL	0.00	0.00	7,078.00
303126	11/5/2019	MT2	O	7,066 GAL	0.00	0.00	7,066.00
303134	11/6/2019	MT2	O	7,078 GAL	0.00	0.00	7,078.00
303161	11/6/2019	MT2	O	7,083 GAL	0.00	0.00	7,083.00
303190	11/6/2019	MT2	O	7,059 GAL	0.00	0.00	7,059.00
303202	11/7/2019	MT2	O	7,075 GAL	0.00	0.00	7,075.00
303231	11/7/2019	MT2	O	7,054 GAL	0.00	0.00	7,054.00
303258	11/8/2019	MT2	O	7,068 GAL	0.00	0.00	7,068.00
J - JAMESTOWN W W T P							
303350	11/11/2019	MT14	O	7,097 GAL	0.00	0.00	7,097.00
303386	11/11/2019	MT14	O	7,035 GAL	0.00	0.00	7,035.00
303409	11/11/2019	MT14	O	7,099 GAL	0.00	0.00	7,099.00
303417	11/12/2019	MT14	O	7,075 GAL	0.00	0.00	7,075.00
303455	11/12/2019	MT14	O	7,035 GAL	0.00	0.00	7,035.00
303480	11/12/2019	MT14	O	7,073 GAL	0.00	0.00	7,073.00
303482	11/13/2019	MT14	O	7,087 GAL	0.00	0.00	7,087.00
303515	11/13/2019	MT14	O	7,035 GAL	0.00	0.00	7,035.00
303539	11/13/2019	MT14	O	7,080 GAL	0.00	0.00	7,080.00
303573	11/14/2019	MT14	O	7,013 GAL	0.00	0.00	7,013.00
303614	11/15/2019	MT14	O	7,097 GAL	0.00	0.00	7,097.00
303644	11/15/2019	MT14	O	7,059 GAL	0.00	0.00	7,059.00
303694	11/18/2019	MT14	O	7,030 GAL	0.00	0.00	7,030.00
303717	11/18/2019	MT14	O	7,049 GAL	0.00	0.00	7,049.00
303743	11/18/2019	MT14	O	7,121 GAL	0.00	0.00	7,121.00
303754	11/19/2019	MT14	O	7,174 GAL	0.00	0.00	7,174.00
303792	11/19/2019	MT14	O	7,025 GAL	0.00	0.00	7,025.00
303843	11/20/2019	MT14	O	7,109 GAL	0.00	0.00	7,109.00
303848	11/20/2019	MT014	O	7,104 GAL	0.00	0.00	7,104.00
303874	11/20/2019	MT14	O	7,083 GAL	0.00	0.00	7,083.00
303883	11/21/2019	MT14	O	7,085 GAL	0.00	0.00	7,085.00
303911	11/21/2019	MT14	O	7,073 GAL	0.00	0.00	7,073.00
303937	11/21/2019	MT14	O	7,018 GAL	0.00	0.00	7,018.00
303961	11/22/2019	MT14	O	7,061 GAL	0.00	0.00	7,061.00
303965	11/22/2019	MT14	O	7,066 GAL	0.00	0.00	7,066.00
303992	11/22/2019	MT14	O	7,054 GAL	0.00	0.00	7,054.00
304074	11/25/2019	MT14	O	7,059 GAL	0.00	0.00	7,059.00

J - JAMESTOWN W W T P

304139	11/26/2019	MT14	O	7,075 GAL	0.00	0.00	7,075.00
304221	11/27/2019	MT14	O	7,013 GAL	0.00	0.00	7,013.00
304276	11/29/2019	MT14	O	7,087 GAL	0.00	0.00	7,087.00
J - JAMESTOWN W W T P					0.00	0.00	289,861.00

41 tickets and 41 transactions

TOC - TOWN OF CANEADEA WWTP

302896	11/1/2019	MT14	O	7,044 GAL	0.00	0.00	7,044.00
302916	11/1/2019	MT14	O	7,090 GAL	0.00	0.00	7,090.00
303040	11/4/2019	MT2	O	7,087 GAL	0.00	0.00	7,087.00
303052	11/4/2019	MT2	O	7,047 GAL	0.00	0.00	7,047.00
303064	11/5/2019	MT2	O	7,059 GAL	0.00	0.00	7,059.00
303083	11/5/2019	MT2	O	7,123 GAL	0.00	0.00	7,123.00
303207	11/7/2019	ME010	O	7,267 GAL	0.00	0.00	7,267.00
303221	11/7/2019	ME010	O	7,265 GAL	0.00	0.00	7,265.00
303271	11/8/2019	ME010	O	7,214 GAL	0.00	0.00	7,214.00
303284	11/8/2019	ME010	O	7,202 GAL	0.00	0.00	7,202.00
303346	11/11/2019	ME010	O	7,257 GAL	0.00	0.00	7,257.00
303367	11/11/2019	ME010	O	7,174 GAL	0.00	0.00	7,174.00
303434	11/12/2019	ME010	O	7,224 GAL	0.00	0.00	7,224.00
303456	11/12/2019	ME010	O	7,241 GAL	0.00	0.00	7,241.00
303560	11/14/2019	ME010	O	7,296 GAL	0.00	0.00	7,296.00
303581	11/14/2019	ME010	O	7,217 GAL	0.00	0.00	7,217.00
303619	11/15/2019	ME010	O	7,195 GAL	0.00	0.00	7,195.00
303633	11/15/2019	ME010	O	7,248 GAL	0.00	0.00	7,248.00
303690	11/18/2019	ME010	O	7,195 GAL	0.00	0.00	7,195.00
303701	11/18/2019	ME010	O	7,260 GAL	0.00	0.00	7,260.00

TOC - TOWN OF CANEADEA WWTP

303751	11/19/2019	ME010	O	7,272 GAL	0.00	0.00	7,272.00
303767	11/19/2019	ME010	O	7,303 GAL	0.00	0.00	7,303.00
303897	11/21/2019	ME010	O	7,056 GAL	0.00	0.00	7,056.00
303932	11/21/2019	ME010	O	7,222 GAL	0.00	0.00	7,222.00
303939	11/22/2019	ME010	O	7,121 GAL	0.00	0.00	7,121.00
304051	11/25/2019	MT14	O	7,030 GAL	0.00	0.00	7,030.00
304062	11/25/2019	MT14	O	7,027 GAL	0.00	0.00	7,027.00

304107	11/26/2019	MT14	O	7,078 GAL	0.00	0.00	7,078.00
304125	11/26/2019	MT14	O	7,032 GAL	0.00	0.00	7,032.00
304248	11/29/2019	MT14	O	7,020 GAL	0.00	0.00	7,020.00
304259	11/29/2019	MT14	O	7,006 GAL	0.00	0.00	7,006.00
TOC - TOWN OF CANEADEA WWTP					0.00	0.00	221,872.00

31 tickets and 31 transactions

WWPT - WELLSVILLE NY WASTE WATER TREATM. PLANT

302892	11/1/2019	ME015	O	6,977 GAL	0.00	0.00	6,977.00
302919	11/1/2019	ME015	O	6,975 GAL	0.00	0.00	6,975.00
302937	11/1/2019	ME015	O	6,994 GAL	0.00	0.00	6,994.00
303015	11/4/2019	ME015	O	7,015 GAL	0.00	0.00	7,015.00
303023	11/4/2019	ME015	O	7,020 GAL	0.00	0.00	7,020.00
303043	11/4/2019	ME015	O	7,023 GAL	0.00	0.00	7,023.00
303060	11/5/2019	ME015	O	7,027 GAL	0.00	0.00	7,027.00
303081	11/5/2019	ME015	O	7,008 GAL	0.00	0.00	7,008.00
303102	11/5/2019	ME015	O	7,008 GAL	0.00	0.00	7,008.00
303115	11/5/2019	ME015	O	7,020 GAL	0.00	0.00	7,020.00
303130	11/6/2019	ME015	O	7,073 GAL	0.00	0.00	7,073.00
303149	11/6/2019	ME015	O	7,001 GAL	0.00	0.00	7,001.00

WWPT - WELLSVILLE NY WASTE WATER TREATM. PLANT

303167	11/6/2019	ME015	O	7,018 GAL	0.00	0.00	7,018.00
303184	11/6/2019	ME015	O	6,975 GAL	0.00	0.00	6,975.00
303196	11/7/2019	ME015	O	7,011 GAL	0.00	0.00	7,011.00
303213	11/7/2019	ME015	O	7,035 GAL	0.00	0.00	7,035.00
303225	11/7/2019	ME015	O	7,018 GAL	0.00	0.00	7,018.00
303261	11/8/2019	ME102	O	6,989 GAL	0.00	0.00	6,989.00
303282	11/8/2019	ME102	O	7,059 GAL	0.00	0.00	7,059.00
303293	11/8/2019	ME102	O	7,051 GAL	0.00	0.00	7,051.00
303302	11/8/2019	ME102	O	6,999 GAL	0.00	0.00	6,999.00
303344	11/11/2019	ME102	O	6,992 GAL	0.00	0.00	6,992.00
303381	11/11/2019	ME102	O	7,008 GAL	0.00	0.00	7,008.00
303416	11/12/2019	ME102	O	7,011 GAL	0.00	0.00	7,011.00
303429	11/12/2019	ME102	O	6,934 GAL	0.00	0.00	6,934.00
303459	11/12/2019	ME102	O	7,004 GAL	0.00	0.00	7,004.00
303485	11/13/2019	ME102	O	7,027 GAL	0.00	0.00	7,027.00

303487	11/13/2019	ME010	O	7,107 GAL	0.00	0.00	7,107.00
303504	11/13/2019	ME102	O	7,035 GAL	0.00	0.00	7,035.00
303510	11/13/2019	ME010	O	6,637 GAL	0.00	0.00	6,637.00
303519	11/13/2019	ME102	O	7,037 GAL	0.00	0.00	7,037.00
303542	11/14/2019	ME102	O	6,987 GAL	0.00	0.00	6,987.00
303554	11/14/2019	ME102	O	7,001 GAL	0.00	0.00	7,001.00
303576	11/14/2019	ME102	O	7,030 GAL	0.00	0.00	7,030.00
303592	11/14/2019	ME102	O	7,051 GAL	0.00	0.00	7,051.00
303612	11/15/2019	ME102	O	6,968 GAL	0.00	0.00	6,968.00
303624	11/15/2019	ME102	O	7,023 GAL	0.00	0.00	7,023.00
303648	11/15/2019	ME102	O	7,039 GAL	0.00	0.00	7,039.00
303663	11/15/2019	ME102	O	6,980 GAL	0.00	0.00	6,980.00
WWPT - WELLSVILLE NY WASTE WATER TREATM. PLANT							
303697	11/18/2019	ME102	O	7,025 GAL	0.00	0.00	7,025.00
303711	11/18/2019	ME102	O	7,039 GAL	0.00	0.00	7,039.00
303716	11/18/2019	ME010	O	7,102 GAL	0.00	0.00	7,102.00
303728	11/18/2019	ME102	O	7,030 GAL	0.00	0.00	7,030.00
303731	11/18/2019	ME010	O	7,025 GAL	0.00	0.00	7,025.00
303745	11/19/2019	ME015	O	7,037 GAL	0.00	0.00	7,037.00
303760	11/19/2019	ME015	O	6,944 GAL	0.00	0.00	6,944.00
303776	11/19/2019	ME015	O	7,004 GAL	0.00	0.00	7,004.00
303789	11/19/2019	ME010	O	6,992 GAL	0.00	0.00	6,992.00
303821	11/20/2019	ME015	O	6,963 GAL	0.00	0.00	6,963.00
303838	11/20/2019	ME015	O	6,999 GAL	0.00	0.00	6,999.00
303855	11/20/2019	ME015	O	7,030 GAL	0.00	0.00	7,030.00
303879	11/21/2019	ME015	O	7,020 GAL	0.00	0.00	7,020.00
303903	11/21/2019	ME015	O	7,039 GAL	0.00	0.00	7,039.00
303916	11/21/2019	ME015	O	7,049 GAL	0.00	0.00	7,049.00
303947	11/22/2019	ME015	O	6,980 GAL	0.00	0.00	6,980.00
303957	11/22/2019	ME010	O	7,471 GAL	0.00	0.00	7,471.00
303974	11/22/2019	ME010	O	7,116 GAL	0.00	0.00	7,116.00
304043	11/25/2019	ME015	O	6,977 GAL	0.00	0.00	6,977.00
304053	11/25/2019	ME015	O	6,958 GAL	0.00	0.00	6,958.00
304067	11/25/2019	ME015	O	6,963 GAL	0.00	0.00	6,963.00
304098	11/26/2019	ME015	O	6,999 GAL	0.00	0.00	6,999.00
304104	11/26/2019	ME015	O	7,051 GAL	0.00	0.00	7,051.00

304121	11/26/2019	ME015	O	6,898 GAL	0.00	0.00	6,898.00
304165	11/27/2019	ME015	O	6,994 GAL	0.00	0.00	6,994.00
304173	11/27/2019	MT14	O	6,994 GAL	0.00	0.00	6,994.00
304188	11/27/2019	ME102	O	6,982 GAL	0.00	0.00	6,982.00
WWPT - WELLSVILLE NY WASTE WATER TREATM. PLANT							
304192	11/27/2019	MT14	O	6,996 GAL	0.00	0.00	6,996.00
304204	11/27/2019	ME102	O	6,999 GAL	0.00	0.00	6,999.00
304208	11/27/2019	MT14	O	6,982 GAL	0.00	0.00	6,982.00
304239	11/29/2019	ME102	O	7,037 GAL	0.00	0.00	7,037.00
304254	11/29/2019	ME102	O	7,047 GAL	0.00	0.00	7,047.00
WWPT - WELLSVILLE NY WASTE WATER TREATM. PLANT					0.00	0.00	497,909.00

71 tickets and 71 transactions

Report Grand Totals

0.00	0.00	1,095,490.00

155 tickets and 155 transactions

End of Report

sRpDstGallons.rpt

Hyland Facility Associates

Destination: All

Destination Report

Transactions from 12/01/2019 through 12/31/2019
Outbound Tickets Only
Third Party and Intercompany Customers
Recycle and Disposal Material
Full Details

Ticket	Date	Truck	Trailer	In / Out		Bill Units	Cubic Yards	Tons
BWTP - OB / OUTBOUND / BELMONT								
304346	12/2/2019	ME102		O	7,159 GAL	0.00	0.00	7,159.00
304414	12/3/2019	ME102		O	7,162 GAL	0.00	0.00	7,162.00
304545	12/6/2019	ME102		O	7,269 GAL	0.00	0.00	7,269.00
304649	12/9/2019	ME102		O	7,193 GAL	0.00	0.00	7,193.00
304758	12/11/2019	ME102		O	7,217 GAL	0.00	0.00	7,217.00
304860	12/13/2019	ME102		O	7,246 GAL	0.00	0.00	7,246.00
304961	12/16/2019	ME102		O	7,229 GAL	0.00	0.00	7,229.00
305051	12/18/2019	ME102		O	7,269 GAL	0.00	0.00	7,269.00
305144	12/20/2019	ME102B		O	7,121 GAL	0.00	0.00	7,121.00
305232	12/23/2019	ME102		O	7,229 GAL	0.00	0.00	7,229.00
305405	12/26/2019	ME102		O	7,253 GAL	0.00	0.00	7,253.00
305490	12/30/2019	ME102		O	7,234 GAL	0.00	0.00	7,234.00
BWTP - OB / OUTBOUND / BELMONT						0.00	0.00	86,581.00
12 tickets and 12 transactions								
J - JAMESTOWN W W T P								
304396	12/3/2019	MT14		O	7,018 GAL	0.00	0.00	7,018.00
304419	12/3/2019	MT14		O	7,047 GAL	0.00	0.00	7,047.00
304478	12/4/2019	MT14		O	7,020 GAL	0.00	0.00	7,020.00
304525	12/5/2019	MT14		O	7,037 GAL	0.00	0.00	7,037.00

304587	12/6/2019	MT14	O	7,051 GAL	0.00	0.00	7,051.00
304623	12/7/2019	MT14	O	7,083 GAL	0.00	0.00	7,083.00
304626	12/7/2019	MT14	O	7,083 GAL	0.00	0.00	7,083.00
304677	12/9/2019	MT14	O	7,073 GAL	0.00	0.00	7,073.00
304734	12/10/2019	MT14	O	7,085 GAL	0.00	0.00	7,085.00
304798	12/11/2019	MT14	O	7,047 GAL	0.00	0.00	7,047.00
304840	12/12/2019	MT14	O	7,059 GAL	0.00	0.00	7,059.00
J - JAMESTOWN W W T P							
304899	12/13/2019	MT14	O	7,037 GAL	0.00	0.00	7,037.00
304985	12/16/2019	MT14	O	7,054 GAL	0.00	0.00	7,054.00
305027	12/17/2019	MT14	O	7,051 GAL	0.00	0.00	7,051.00
305095	12/18/2019	MT14	O	7,054 GAL	0.00	0.00	7,054.00
305141	12/19/2019	MT14	O	7,234 GAL	0.00	0.00	7,234.00
305180	12/20/2019	MT14	O	7,004 GAL	0.00	0.00	7,004.00
305267	12/23/2019	MT14	O	7,049 GAL	0.00	0.00	7,049.00
305329	12/24/2019	MT14	O	7,037 GAL	0.00	0.00	7,037.00
305386	12/26/2019	MT14	O	7,044 GAL	0.00	0.00	7,044.00
305441	12/27/2019	MT14	O	6,987 GAL	0.00	0.00	6,987.00
305519	12/30/2019	MT14	O	7,008 GAL	0.00	0.00	7,008.00
305567	12/31/2019	MT14	O	6,977 GAL	0.00	0.00	6,977.00
J - JAMESTOWN W W T P					0.00	0.00	162,139.00

23 tickets and 23 transactions

TOC - TOWN OF CANEADEA WWTP

304367	12/3/2019	MT14	O	7,037 GAL	0.00	0.00	7,037.00
304382	12/3/2019	MT14	O	7,035 GAL	0.00	0.00	7,035.00
304491	12/5/2019	MT14	O	7,080 GAL	0.00	0.00	7,080.00
304507	12/5/2019	MT14	O	7,011 GAL	0.00	0.00	7,011.00
304559	12/6/2019	MT14	O	7,027 GAL	0.00	0.00	7,027.00
304568	12/6/2019	MT14	O	7,049 GAL	0.00	0.00	7,049.00
304654	12/9/2019	MT14	O	6,999 GAL	0.00	0.00	6,999.00
304669	12/9/2019	MT14	O	6,980 GAL	0.00	0.00	6,980.00
304704	12/10/2019	MT14	O	7,027 GAL	0.00	0.00	7,027.00
304718	12/10/2019	MT14	O	7,073 GAL	0.00	0.00	7,073.00
304814	12/12/2019	MT14	O	7,047 GAL	0.00	0.00	7,047.00
TOC - TOWN OF CANEADEA WWTP							
304830	12/12/2019	MT14	O	7,039 GAL	0.00	0.00	7,039.00
304872	12/13/2019	MT14	O	7,035 GAL	0.00	0.00	7,035.00

304886	12/13/2019	MT14	O	7,063 GAL	0.00	0.00	7,063.00
304967	12/16/2019	MT14	O	6,999 GAL	0.00	0.00	6,999.00
304978	12/16/2019	MT14	O	7,015 GAL	0.00	0.00	7,015.00
305007	12/17/2019	MT14	O	7,027 GAL	0.00	0.00	7,027.00
305017	12/17/2019	MT14	O	7,025 GAL	0.00	0.00	7,025.00
305123	12/19/2019	MT14	O	7,011 GAL	0.00	0.00	7,011.00
305135	12/19/2019	MT14	O	7,001 GAL	0.00	0.00	7,001.00
305159	12/20/2019	MT14	O	7,015 GAL	0.00	0.00	7,015.00
305170	12/20/2019	MT14	O	7,008 GAL	0.00	0.00	7,008.00
305245	12/23/2019	MT14	O	7,035 GAL	0.00	0.00	7,035.00
305257	12/23/2019	MT14	O	7,020 GAL	0.00	0.00	7,020.00
305299	12/24/2019	MT14	O	7,030 GAL	0.00	0.00	7,030.00
305318	12/24/2019	MT14	O	7,521 GAL	0.00	0.00	7,521.00
305362	12/26/2019	MT14	O	7,063 GAL	0.00	0.00	7,063.00
305373	12/26/2019	MT14	O	7,998 GAL	0.00	0.00	7,998.00
305415	12/27/2019	MT14	O	7,042 GAL	0.00	0.00	7,042.00
305428	12/27/2019	MT14	O	7,027 GAL	0.00	0.00	7,027.00
305499	12/30/2019	MT14	O	7,059 GAL	0.00	0.00	7,059.00
305508	12/30/2019	MT14	O	7,059 GAL	0.00	0.00	7,059.00
305543	12/31/2019	MT14	O	7,068 GAL	0.00	0.00	7,068.00
305559	12/31/2019	MT14	O	7,073 GAL	0.00	0.00	7,073.00
TOC - TOWN OF CANEADEA WWTP					0.00	0.00	240,598.00

34 tickets and 34 transactions

WWPT - WELLSVILLE NY WASTE WATER TREATM. PLANT

WWPT - WELLSVILLE NY WASTE WATER TREATM. PLANT

304348	12/2/2019	ME102	O	6,948 GAL	0.00	0.00	6,948.00
304353	12/2/2019	ME102	O	7,087 GAL	0.00	0.00	7,087.00
304359	12/2/2019	ME102	O	6,994 GAL	0.00	0.00	6,994.00
304365	12/3/2019	ME102	O	7,008 GAL	0.00	0.00	7,008.00
304385	12/3/2019	ME102	O	7,047 GAL	0.00	0.00	7,047.00
304403	12/3/2019	ME0102	O	6,944 GAL	0.00	0.00	6,944.00
304425	12/4/2019	MT14	O	6,956 GAL	0.00	0.00	6,956.00
304429	12/4/2019	ME102	O	7,037 GAL	0.00	0.00	7,037.00
304446	12/4/2019	MT14	O	6,929 GAL	0.00	0.00	6,929.00
304449	12/4/2019	ME102	O	7,015 GAL	0.00	0.00	7,015.00
304462	12/4/2019	MT14	O	6,948 GAL	0.00	0.00	6,948.00
304471	12/4/2019	ME102	O	7,018 GAL	0.00	0.00	7,018.00
304494	12/5/2019	ME102	O	7,027 GAL	0.00	0.00	7,027.00
304496	12/5/2019	ME102	O	6,996 GAL	0.00	0.00	6,996.00

304522	12/5/2019	ME102	O	6,948 GAL	0.00	0.00	6,948.00
304550	12/6/2019	ME102	O	7,039 GAL	0.00	0.00	7,039.00
304562	12/6/2019	ME102	O	6,953 GAL	0.00	0.00	6,953.00
304578	12/6/2019	ME102	O	6,934 GAL	0.00	0.00	6,934.00
304660	12/9/2019	ME102	O	6,963 GAL	0.00	0.00	6,963.00
304671	12/9/2019	ME102	O	6,958 GAL	0.00	0.00	6,958.00
304684	12/9/2019	ME102	O	7,039 GAL	0.00	0.00	7,039.00
304721	12/10/2019	ME102	O	7,054 GAL	0.00	0.00	7,054.00
304737	12/10/2019	ME102	O	7,037 GAL	0.00	0.00	7,037.00
304752	12/10/2019	ME102	O	7,056 GAL	0.00	0.00	7,056.00
304765	12/11/2019	MT14	O	6,939 GAL	0.00	0.00	6,939.00
304771	12/11/2019	ME102	O	6,917 GAL	0.00	0.00	6,917.00
304774	12/11/2019	MT14	O	6,934 GAL	0.00	0.00	6,934.00
WWPT - WELLSVILLE NY WASTE WATER TREATM. PLANT							
304781	12/11/2019	ME102	O	7,011 GAL	0.00	0.00	7,011.00
304785	12/11/2019	MT14	O	6,946 GAL	0.00	0.00	6,946.00
304794	12/11/2019	ME102	O	7,032 GAL	0.00	0.00	7,032.00
304808	12/12/2019	ME102	O	7,023 GAL	0.00	0.00	7,023.00
304827	12/12/2019	ME102	O	7,027 GAL	0.00	0.00	7,027.00
304838	12/12/2019	ME102	O	7,025 GAL	0.00	0.00	7,025.00
304862	12/13/2019	ME102	O	7,071 GAL	0.00	0.00	7,071.00
304877	12/13/2019	ME102	O	7,039 GAL	0.00	0.00	7,039.00
304892	12/13/2019	ME102	O	7,039 GAL	0.00	0.00	7,039.00
304969	12/16/2019	ME102	O	6,965 GAL	0.00	0.00	6,965.00
304982	12/16/2019	ME102	O	7,054 GAL	0.00	0.00	7,054.00
304991	12/16/2019	ME102	O	7,025 GAL	0.00	0.00	7,025.00
304998	12/17/2019	ME102	O	7,001 GAL	0.00	0.00	7,001.00
305012	12/17/2019	ME102	O	7,001 GAL	0.00	0.00	7,001.00
305026	12/17/2019	ME102	O	7,006 GAL	0.00	0.00	7,006.00
305059	12/18/2019	MT14	O	6,903 GAL	0.00	0.00	6,903.00
305070	12/18/2019	ME102	O	7,047 GAL	0.00	0.00	7,047.00
305075	12/18/2019	MT14	O	6,922 GAL	0.00	0.00	6,922.00
305082	12/18/2019	MT14	O	6,989 GAL	0.00	0.00	6,989.00
305098	12/19/2019	ME102	O	7,025 GAL	0.00	0.00	7,025.00
305114	12/19/2019	ME102	O	6,960 GAL	0.00	0.00	6,960.00
305126	12/19/2019	ME102	O	7,008 GAL	0.00	0.00	7,008.00
305137	12/19/2019	ME001	O	7,030 GAL	0.00	0.00	7,030.00
305149	12/20/2019	ME102	O	6,972 GAL	0.00	0.00	6,972.00
305163	12/20/2019	ME102	O	7,018 GAL	0.00	0.00	7,018.00
305175	12/20/2019	ME102	O	6,941 GAL	0.00	0.00	6,941.00
305237	12/23/2019	ME102	O	7,083 GAL	0.00	0.00	7,083.00

WWPT - WELLSVILLE NY WASTE WATER TREATM. PLANT

305250	12/23/2019	ME102	O	7,047 GAL	0.00	0.00	7,047.00
305264	12/23/2019	ME102	O	7,181 GAL	0.00	0.00	7,181.00
305279	12/23/2019	ME102	O	6,958 GAL	0.00	0.00	6,958.00
305298	12/24/2019	ME102	O	6,994 GAL	0.00	0.00	6,994.00
305304	12/24/2019	ME102	O	7,054 GAL	0.00	0.00	7,054.00
305321	12/24/2019	ME102	O	6,963 GAL	0.00	0.00	6,963.00
305336	12/24/2019	ME102	O	7,023 GAL	0.00	0.00	7,023.00
305355	12/26/2019	ME102	O	7,042 GAL	0.00	0.00	7,042.00
305359	12/26/2019	ME102	O	6,987 GAL	0.00	0.00	6,987.00
305376	12/26/2019	ME102	O	7,102 GAL	0.00	0.00	7,102.00
305393	12/26/2019	ME102	O	6,970 GAL	0.00	0.00	6,970.00
305407	12/27/2019	ME102	O	7,056 GAL	0.00	0.00	7,056.00
305423	12/27/2019	ME102	O	6,994 GAL	0.00	0.00	6,994.00
305444	12/27/2019	ME102	O	7,035 GAL	0.00	0.00	7,035.00
305493	12/30/2019	ME102	O	7,073 GAL	0.00	0.00	7,073.00
305502	12/30/2019	ME102	O	7,054 GAL	0.00	0.00	7,054.00
305517	12/30/2019	ME102	O	6,984 GAL	0.00	0.00	6,984.00
305523	12/30/2019	ME102	O	6,987 GAL	0.00	0.00	6,987.00
305536	12/31/2019	ME102	O	7,032 GAL	0.00	0.00	7,032.00
305539	12/31/2019	ME102	O	7,027 GAL	0.00	0.00	7,027.00
305558	12/31/2019	ME102	O	7,035 GAL	0.00	0.00	7,035.00
305570	12/31/2019	ME001	O	6,975 GAL	0.00	0.00	6,975.00
WWPT - WELLSVILLE NY WASTE WATER TREATM. PLANT					0.00	0.00	532,461.00

76 tickets and 76 transactions

Report Grand Totals

0.00	0.00	1,021,779.00

145 tickets and 145 transactions

End of Report

ATTACHMENT 8 – LEAK DETECTION SYSTEM

Hyland Facility Associates

Leak Detection System - Fluid Collected on a Weekly Basis

1ST Qrt 2019

	Week of	4-Jan	11-Jan	18-Jan	1-Feb	8-Feb	15-Feb	22-Feb	1-Mar	8-Mar	15-Mar	22-Mar	29-Mar
Location	**Fluid**	gals	gals	gals	gals	gals	gals	gals	gals	gals	gals	gals	gals
Detection Port No. 1 @ Impoundment		0	0	0	0	0	0	0	0	0	0	0	0
Detection Port No. 2 @ Impoundment		0	0	0	0	0	0	0	0	0	0	0	0
Detection Port No. 3 @ Cell 4		0	0	0	0	0	0	0	0	0	0	0	0
Detection Port No. 4 @ Cell 5		0	0	0	0	0	0	0	0	0	0	0	0

There was some accumulated condensation in the manholes but no leachate from pipe secondaries

Hyland Facility Associates

Leak Detection System - Fluid Collected on a Weekly Basis

2nd Qrt 2019

	Week of	5-Apr	12-Apr	19-Apr	26-Apr	3-May	10-May	17-May	24-May	31-May	7-Jun	14-Jun	21-Jun	28-Jun
Location	**Fluid**	gals	gals	gals	gals	gals	gals	gals	gals	gals	gals	gals	gals	gals
Detection Port No. 1 @ Impoundment		0	0	0	0	0	0	0	0	0	0	0	0	0
Detection Port No. 2 @ Impoundment		0	0	0	0	0	0	0	0	0	0	0	0	0
Detection Port No. 3 @ Cell 4		0	0	0	0	0	0	0	0	0	0	0	0	0
Detection Port No. 4 @ Cell 5		0	0	0	0	0	0	0	0	0	0	0	0	0

There was some accumulated condensation in the manholes but no leachate from pipe secondaries

Hyland Facility Associates

Leak Detection System - Fluid Collected on a Weekly Basis

3RD Qrt 2019

	Week of	5-Jul	12-Jul	19-Jul	26-Jul	2-Aug	9-Aug	16-Aug	23-Aug	30-Aug	6-Sep	13-Sep	20-Sep	27-Sep
Location	**Fluid**	gals	gals	gals	gals	gals	gals	gals	gals	gals	gals	gals	gals	gals
Detection Port No. 1 @ Impoundment		0	0	0	0	0	0	0	0	0	0	0	0	0
Detection Port No. 2 @ Impoundment		0	0	0	0	0	0	0	0	0	0	0	0	0
Detection Port No. 3 @ Cell 4		0	0	0	0	0	0	0	0	0	0	0	0	0
Detection Port No. 4 @ Cell 5		0	0	0	0	0	0	0	0	0	0	0	0	0

There was some accumulated condensation in the manholes but no leachate from pipe secondaries

Hyland Facility Associates

Leak Detection System - Fluid Collected on a Weekly Basis

4th Quarter 2019

	Week of	3-Oct	10-Oct	17-Oct	24-Oct	31-Oct	7-Nov	14-Nov	21-Nov	28-Nov	5-Dec	12-Dec	19-Dec	25-Dec
Location	**Fluid**	gals	gals	gals	gals	gals	gals	gals	gals	gals	gals	gals	gals	gals
Detection Port No. 1 @ Impoundment		0	0	0	0	0	0	0	0	0	0	0	0	0
Detection Port No. 2 @ Impoundment		0	0	0	0	0	0	0	0	0	0	0	0	0

There was some accumulated condensation in the manholes but no leachate

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ATTACHMENT 9 – TONNAGE REPORTS

TONNAGE FOR 4TH QUARTER 2019

Hyland Facility Associates
Angelica, NY

Tabulation of trucks delivering waste to the site on a daily basis for
October, November, December 2019 (Includes BUD Materials)

Date	# of Trucks
10/1/19	64
10/2/19	58
10/3/19	63
10/4/19	60
10/5/19	38
10/6/19	0
10/7/19	59
10/8/19	63
10/9/19	59
10/10/19	63
10/11/19	54
10/12/19	13
10/13/19	0
10/14/19	41
10/15/19	64
10/16/19	46
10/17/19	57
10/18/19	56
10/19/19	31
10/20/19	0
10/21/19	44
10/22/19	78
10/23/19	57
10/24/19	55
10/25/19	50
10/26/19	21
10/27/19	0
10/28/19	39
10/29/19	71
10/30/19	54
10/31/19	55
Total	**1413**

Date	# of Trucks
11/1/19	72
11/2/19	31
11/3/19	0
11/4/19	52
11/5/19	61
11/6/19	58
11/7/19	51
11/8/19	47
11/9/19	35
11/10/19	0
11/11/19	64
11/12/19	56
11/13/19	52
11/14/19	56
11/15/19	62
11/16/19	11
11/17/19	0
11/18/19	46
11/19/19	63
11/20/19	54
11/21/19	52
11/22/19	53
11/23/19	40
11/24/19	0
11/25/19	45
11/26/19	63
11/27/19	64
11/28/19	0
11/29/19	44
11/30/19	59
Total	**1291**

Date	# of Trucks
12/1/19	0
12/2/19	16
12/3/19	49
12/4/19	58
12/5/19	52
12/6/19	57
12/7/19	38
12/8/19	0
12/9/19	42
12/10/19	52
12/11/19	43
12/12/19	45
12/13/19	49
12/14/19	41
12/15/19	0
12/16/19	34
12/17/19	47
12/18/19	40
12/19/19	39
12/20/19	50
12/21/19	30
12/22/19	0
12/23/19	47
12/24/19	54
12/25/19	0
12/26/19	48
12/27/19	41
12/28/19	33
12/29/19	0
12/30/19	33
12/31/19	35
Total	**1073**

RpCatMat.rpt

Category: All

Hyland Facility Associates

Category / Material Report

Transactions from 10/01/2019 through 10/31/2019
Inbound and Outbound Tickets
Third Party and Intercompany Customers
Recycle and Disposal Material
Material Summary

	BillUnits	Cubic Yards	Tons	Est Tons
ASB - ASBESTOS				
BAFA - BAGGED FRIABLE ASBESTOS *5 tickets and 5 transactions*	23.11 T	0.00	23.11	0.00
BUFA - BULK FRIABLE ASBESTOS *11 tickets and 11 transactions*	245.61 T	0.00	245.61	0.00
ICBA - I/C BAGGED FRIABLE ASBESTOS *5 tickets and 5 transactions*	34.94 T	0.00	34.94	0.00
ASB - ASBESTOS *21 tickets and 21 transactions*		0.00	303.66	0.00
BUD - BUD ADC				
BDCS - BUD CONTAMINATED SOIL *6 tickets and 6 transactions*	140.02 T	0.00	140.02	0.00
CDAD - CONSTRUCTION DEBRIS (BUD ADC) *76 tickets and 76 transactions*	2,382.80 T	0.00	2,382.80	0.00
UPAS - 1730 AUTO SHREDDER *42 tickets and 42 transactions*	1,160.72 T	0.00	1,160.72	0.00
BUD - BUD ADC *124 tickets and 124 transactions*		0.00	3,683.54	0.00

BUDSBA - BUD SOLIDIFICATION BULKING AGENT				
1730 - ASR BULKING AGENT 1730S *8 tickets and 8 transactions*	222.47 T	0.00	222.47	0.00
BUDSBA - BUD SOLIDIFICATION BULKING AGENT *8 tickets and 8 transactions*		0.00	222.47	0.00
C&D - CONSTRUCTION DEBRIS				
CD - CONSTRUCTION DEBRIS *180 tickets and 180 transactions*	1,871.15 T	0.00	1,871.15	0.00
ICCD - I-C CONSTUCTION DEBRIS *10 tickets and 10 transactions*	34.81 T	0.00	34.81	0.00
C&D - CONSTRUCTION DEBRIS *190 tickets and 190 transactions*		0.00	1,905.96	0.00
IND - INDUSTRIAL				
4217 - NON-HAZ SOLIDS 4217 *6 tickets and 6 transactions*	18.81 T	0.00	18.81	0.00
4867 - I/C SAWDUST 4867 *1 ticket and 1 transaction*	5.15 T	0.00	5.15	0.00
6090 - I/C PLANT TRASH 6090 *1 ticket and 1 transaction*	3.87 T	0.00	3.87	0.00
6534 - I/C PLANT TRASH 6534 *5 tickets and 5 transactions*	12.62 T	0.00	12.62	0.00
6535 - I/C PLANT TRASH 6535 *2 tickets and 2 transactions*	6.19 T	0.00	6.19	0.00
6645 - MIXED PLANT TRASH 6645 *9 tickets and 9 transactions*	55.89 T	0.00	55.89	0.00
6646 - MIXED PLANT TRASH 6646 *1 ticket and 1 transaction*	5.62 T	0.00	5.62	0.00
ICES - 189 INDUSTRIAL / PLANT TRASH *5 tickets and 5 transactions*	53.37 T	0.00	53.37	0.00
ICHA - 188 INDUSTRIAL / PLANT TRASH *4 tickets and 4 transactions*	10.71 T	0.00	10.71	0.00
ICIN - I-C INDUSTRIAL *4 tickets and 4 transactions*	43.86 T	0.00	43.86	0.00
ICLE - 1548 I/C TOBACCO *4 tickets and 4 transactions*	14.07 T	0.00	14.07	0.00

ICSD - I/C SAPUTO DAIRY TRASH *13 tickets and 13 transactions*	67.86 T	0.00	67.86	0.00
IND - INDUSTRIAL *55 tickets and 55 transactions*		0.00	298.02	0.00
LEACH - LEACHATE				
LEACH - LEACHATE *156 tickets and 156 transactions*	1,100,772.00 GAL	0.00	0.00	0.00
LEACH - LEACHATE *156 tickets and 156 transactions*		0.00	0.00	0.00
MISC - MISC CHARGES				
MISC - MISC CHARGES				
CO - CLEAN OUT SERVICE *5 tickets and 5 transactions*	5.00 U	0.00	0.00	0.00
DO - DIG OUT SERVICE *7 tickets and 7 transactions*	7.00 U	0.00	0.00	0.00
MBTI - MBI TIPPER CHARGE *209 tickets and 209 transactions*	209.00 U	0.00	0.00	0.00
MBTP - I/C MBI TIPPER *35 tickets and 35 transactions*	35.00 U	0.00	0.00	0.00
MISC - MISC CHARGES *249 tickets and 256 transactions*		0.00	0.00	0.00
MSW - MUNICIPAL SOLID WASTE				
ICAW - I/C Allegany Cty Waste *6 tickets and 6 transactions*	19.12 T	0.00	19.12	0.00
ICCP - MSW POTTER COUNTY *7 tickets and 7 transactions*	127.21 T	0.00	127.21	0.00
ICMS - I-C MSW *139 tickets and 139 transactions*	4,962.36 T	0.00	4,962.36	0.00
MS - MSW *609 tickets and 609 transactions*	16,614.20 T	0.00	16,614.20	0.00
MSW - MUNICIPAL SOLID WASTE *761 tickets and 761 transactions*		0.00	21,722.89	0.00
MX - MIXED C&D AND MSW				

ICMX - I-C MSW & CD MIXED TRASH *2 tickets and 2 transactions*	3.75 T	0.00	3.75	0.00
ICTR - I/C Mixed Waste TT *84 tickets and 84 transactions*	2,756.70 T	0.00	2,756.70	0.00
MX - MSW & MIXED TRASH *26 tickets and 26 transactions*	233.61 T	0.00	233.61	0.00
MX - MIXED C&D AND MSW *112 tickets and 112 transactions*		0.00	2,994.06	0.00

SIM - INDUSTRIAL SOLIDIFICATION

SIM - INDUSTRIAL SOLIDIFICATION

4155 - NON-HAZ LIQUID 4155 *6 tickets and 6 transactions*	92.48 T	0.00	92.48	0.00
4286 - I/C NON HAZ LIQUIDS 4286 *1 ticket and 1 transaction*	20.70 T	0.00	20.70	0.00
4427 - NON-HAZ LIQUID 4427 *4 tickets and 4 transactions*	23.44 T	0.00	23.44	0.00
4966 - OILY TANK BOTTOMS 4966 *3 tickets and 3 transactions*	33.84 T	0.00	33.84	0.00
MSSL - INDUSTRIAL SOLIDIFICATION *9 tickets and 9 transactions*	84.68 T	0.00	84.68	0.00
SIM - INDUSTRIAL SOLIDIFICATION *23 tickets and 23 transactions*		0.00	255.14	0.00

SS - SEWAGE SLUDGE

ICOS - 582 OLEAN WWTP SLUDGE *13 tickets and 13 transactions*	179.36 T	0.00	179.36	0.00
ICSL - I/C SLUDGE *108 tickets and 108 transactions*	3,556.36 T	0.00	3,556.36	0.00
SL - SLUDGE *7 tickets and 7 transactions*	238.66 T	0.00	238.66	0.00
VWSL - 331 WWTP SLUDGE *4 tickets and 4 transactions*	55.42 T	0.00	55.42	0.00
SS - SEWAGE SLUDGE *132 tickets and 132 transactions*		0.00	4,029.80	0.00

Report Grand Totals ***1,582 tickets and 1,838 transactions***		0.00	35,415.54	0.00

End of Report

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Category: All

Hyland Facility Associates

Category / Material Report

Transactions from 11/01/2019 through 11/30/2019
Inbound and Outbound Tickets
Third Party and Intercompany Customers
Recycle and Disposal Material
Material Summary

	BillUnits	Cubic Yards	Tons	Est Tons
ASB - ASBESTOS				
BAFA - BAGGED FRIABLE ASBESTOS *1 ticket and 1 transaction*	1.54 T	0.00	1.54	0.00
ASB - ASBESTOS *1 ticket and 1 transaction*		0.00	1.54	0.00
BUD - BUD ADC				
CDAD - CONSTRUCTION DEBRIS (BUD ADC) *62 tickets and 62 transactions*	2,007.52 T	0.00	2,007.52	0.00
UPAS - 1730 AUTO SHREDDER *48 tickets and 48 transactions*	1,331.75 T	0.00	1,331.75	0.00
BUD - BUD ADC *110 tickets and 110 transactions*		0.00	3,339.27	0.00
BUDSBA - BUD SOLIDIFICATION BULKING AGENT				
1730 - ASR BULKING AGENT 1730S *13 tickets and 13 transactions*	362.48 T	0.00	362.48	0.00
BUDSBA - BUD SOLIDIFICATION BULKING AGENT *13 tickets and 13 transactions*		0.00	362.48	0.00

C&D - CONSTRUCTION DEBRIS				
CD - CONSTRUCTION DEBRIS *142 tickets and 142 transactions*	1,872.42 T	0.00	1,872.42	0.00
ICCD - I-C CONSTUCTION DEBRIS *7 tickets and 7 transactions*	35.04 T	0.00	35.04	0.00
C&D - CONSTRUCTION DEBRIS *149 tickets and 149 transactions*		0.00	1,907.46	0.00
IND - INDUSTRIAL				
4217 - NON-HAZ SOLIDS 4217 *4 tickets and 4 transactions*	10.97 T	0.00	10.97	0.00
4867 - I/C SAWDUST 4867 *1 ticket and 1 transaction*	4.21 T	0.00	4.21	0.00
IND - INDUSTRIAL				
6090 - I/C PLANT TRASH 6090 *1 ticket and 1 transaction*	3.71 T	0.00	3.71	0.00
6534 - I/C PLANT TRASH 6534 *4 tickets and 4 transactions*	8.90 T	0.00	8.90	0.00
6535 - I/C PLANT TRASH 6535 *2 tickets and 2 transactions*	5.73 T	0.00	5.73	0.00
6645 - MIXED PLANT TRASH 6645 *10 tickets and 10 transactions*	68.46 T	0.00	68.46	0.00
6646 - MIXED PLANT TRASH 6646 *2 tickets and 2 transactions*	10.85 T	0.00	10.85	0.00
ICES - 189 INDUSTRIAL / PLANT TRASH *3 tickets and 3 transactions*	35.87 T	0.00	35.87	0.00
ICHA - 188 INDUSTRIAL / PLANT TRASH *5 tickets and 5 transactions*	20.40 T	0.00	20.40	0.00
ICLE - 1548 I/C TOBACCO *5 tickets and 5 transactions*	16.97 T	0.00	16.97	0.00
ICSD - I/C SAPUTO DAIRY TRASH *13 tickets and 13 transactions*	69.32 T	0.00	69.32	0.00
ICTQ - 1660 IC General Trash *1 ticket and 1 transaction*	2.50 T	0.00	2.50	0.00
IND - INDUSTRIAL *51 tickets and 51 transactions*		0.00	257.89	0.00
LEACH - LEACHATE				

LEACH - LEACHATE *155 tickets and 155 transactions*	1,095,490.00 GAL	0.00	0.00	0.00
LEACH - LEACHATE *155 tickets and 155 transactions*		0.00	0.00	0.00
MISC - MISC CHARGES				
CO - CLEAN OUT SERVICE *3 tickets and 3 transactions*	3.00 U	0.00	0.00	0.00
DO - DIG OUT SERVICE *9 tickets and 9 transactions*	9.00 U	0.00	0.00	0.00
MISC - MISC CHARGES				
ICDO - I-C DIG OUT SERVICE *2 tickets and 2 transactions*	2.00 U	0.00	0.00	0.00
MBTI - MBI TIPPER CHARGE *137 tickets and 137 transactions*	137.00 U	0.00	0.00	0.00
MBTP - I/C MBI TIPPER *48 tickets and 48 transactions*	48.00 U	0.00	0.00	0.00
MISC - MISC CHARGES *192 tickets and 199 transactions*		0.00	0.00	0.00
MSW - MUNICIPAL SOLID WASTE				
ICAW - I/C Allegany Cty Waste *3 tickets and 3 transactions*	12.56 T	0.00	12.56	0.00
ICCP - MSW POTTER COUNTY *3 tickets and 3 transactions*	40.32 T	0.00	40.32	0.00
ICMS - I-C MSW *154 tickets and 154 transactions*	5,544.84 T	0.00	5,544.84	0.00
MS - MSW *535 tickets and 535 transactions*	14,627.63 T	0.00	14,627.63	0.00
MSW - MUNICIPAL SOLID WASTE *695 tickets and 695 transactions*		0.00	20,225.35	0.00
MX - MIXED C&D AND MSW				
ICTR - I/C Mixed Waste TT *81 tickets and 81 transactions*	2,453.73 T	0.00	2,453.73	0.00
MX - MSW & MIXED TRASH *21 tickets and 21 transactions*	231.72 T	0.00	231.72	0.00
MX - MIXED C&D AND MSW *102 tickets and 102 transactions*		0.00	2,685.45	0.00

SIM - INDUSTRIAL SOLIDIFICATION				
4155 - NON-HAZ LIQUID 4155 *4 tickets and 4 transactions*	62.23 T	0.00	62.23	0.00
4286 - I/C NON HAZ LIQUIDS 4286 *1 ticket and 1 transaction*	21.74 T	0.00	21.74	0.00
SIM - INDUSTRIAL SOLIDIFICATION				
4427 - NON-HAZ LIQUID 4427 *1 ticket and 1 transaction*	6.21 T	0.00	6.21	0.00
4966 - OILY TANK BOTTOMS 4966 *5 tickets and 5 transactions*	62.83 T	0.00	62.83	0.00
6112 - OFF SPEC PROD W/LIQ 6112 *2 tickets and 2 transactions*	22.37 T	0.00	22.37	0.00
MSSL - INDUSTRIAL SOLIDIFICATION *3 tickets and 3 transactions*	21.10 T	0.00	21.10	0.00
SIM - INDUSTRIAL SOLIDIFICATION *16 tickets and 16 transactions*		0.00	196.48	0.00
SS - SEWAGE SLUDGE				
ICOS - 582 OLEAN WWTP SLUDGE *8 tickets and 8 transactions*	114.16 T	0.00	114.16	0.00
ICSL - I/C SLUDGE *140 tickets and 140 transactions*	4,978.68 T	0.00	4,978.68	0.00
ICWN - 2021 I/C WWTP SLUDGE *2 tickets and 2 transactions*	35.86 T	0.00	35.86	0.00
SL - SLUDGE *6 tickets and 6 transactions*	209.07 T	0.00	209.07	0.00
VWSL - 331 WWTP SLUDGE *4 tickets and 4 transactions*	56.39 T	0.00	56.39	0.00
SS - SEWAGE SLUDGE *160 tickets and 160 transactions*		0.00	5,394.16	0.00
TIRES - MISC CHARGES				
HAFE - HANDLING FEE *1 ticket and 1 transaction*	1.00 U	0.00	0.00	0.00
TIRES - MISC CHARGES *1 ticket and 1 transaction*		0.00	0.00	0.00
Report Grand Totals ***1,452 tickets and 1,652 transactions***		0.00	34,370.08	0.00

End of Report

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Category: All

Hyland Facility Associates

Category / Material Report

Transactions from 12/01/2019 through 12/31/2019
Inbound and Outbound Tickets
Third Party and Intercompany Customers
Recycle and Disposal Material
Material Summary

	BillUnits	Cubic Yards	Tons	Est Tons
BUD - BUD ADC				
CDAD - CONSTRUCTION DEBRIS (BUD ADC) *33 tickets and 33 transactions*	1,140.94 T	0.00	1,140.94	0.00
ICBD - I/C BUD ADC *1 ticket and 1 transaction*	9.26 T	0.00	9.26	0.00
UPAS - 1730 AUTO SHREDDER *59 tickets and 59 transactions*	1,720.29 T	0.00	1,720.29	0.00
BUD - BUD ADC *93 tickets and 93 transactions*		0.00	2,870.49	0.00
BUDSBA - BUD SOLIDIFICATION BULKING AGENT				
1730 - ASR BULKING AGENT 1730S *12 tickets and 12 transactions*	330.37 T	0.00	330.37	0.00
BUDSBA - BUD SOLIDIFICATION BULKING AGENT *12 tickets and 12 transactions*		0.00	330.37	0.00
C&D - CONSTRUCTION DEBRIS				
CD - CONSTRUCTION DEBRIS *138 tickets and 138 transactions*	2,060.28 T	0.00	2,060.28	0.00

ICCD - I-C CONSTUCTION DEBRIS *4 tickets and 4 transactions*	16.10 T	0.00	16.10	0.00
C&D - CONSTRUCTION DEBRIS *142 tickets and 142 transactions*		0.00	2,076.38	0.00
IND - INDUSTRIAL				
4217 - NON-HAZ SOLIDS 4217 *6 tickets and 6 transactions*	22.49 T	0.00	22.49	0.00
4867 - I/C SAWDUST 4867 *1 ticket and 1 transaction*	4.09 T	0.00	4.09	0.00
6090 - I/C PLANT TRASH 6090 *1 ticket and 1 transaction*	3.93 T	0.00	3.93	0.00
6534 - I/C PLANT TRASH 6534 *4 tickets and 4 transactions*	8.29 T	0.00	8.29	0.00
6535 - I/C PLANT TRASH 6535 *3 tickets and 3 transactions*	6.65 T	0.00	6.65	0.00
IND - INDUSTRIAL				
6645 - MIXED PLANT TRASH 6645 *9 tickets and 9 transactions*	56.57 T	0.00	56.57	0.00
6646 - MIXED PLANT TRASH 6646 *1 ticket and 1 transaction*	6.09 T	0.00	6.09	0.00
6864 - METAL GRINDING 6864 *1 ticket and 1 transaction*	10.66 T	0.00	10.66	0.00
ICES - 189 INDUSTRIAL / PLANT TRASH *4 tickets and 4 transactions*	24.80 T	0.00	24.80	0.00
ICHA - 188 INDUSTRIAL / PLANT TRASH *3 tickets and 3 transactions*	6.88 T	0.00	6.88	0.00
ICLE - 1548 I/C TOBACCO *4 tickets and 4 transactions*	10.60 T	0.00	10.60	0.00
ICSD - I/C SAPUTO DAIRY TRASH *13 tickets and 13 transactions*	70.57 T	0.00	70.57	0.00
ICTQ - 1660 IC General Trash *1 ticket and 1 transaction*	0.72 T	0.00	0.72	0.00
IN - INDUSTRIAL *2 tickets and 2 transactions*	22.92 T	0.00	22.92	0.00
IND - INDUSTRIAL *53 tickets and 53 transactions*		0.00	255.26	0.00

LEACH - LEACHATE

LEACH - LEACHATE *145 tickets and 145 transactions*	1,021,779.00 GAL	0.00	0.00	0.00
LEACH - LEACHATE *145 tickets and 145 transactions*		0.00	0.00	0.00

MISC - MISC CHARGES

DO - DIG OUT SERVICE *10 tickets and 10 transactions*	10.00 U	0.00	0.00	0.00
ICDO - I-C DIG OUT SERVICE *3 tickets and 3 transactions*	3.00 U	0.00	0.00	0.00
MBTI - MBI TIPPER CHARGE *116 tickets and 116 transactions*	116.00 U	0.00	0.00	0.00

MISC - MISC CHARGES

MBTP - I/C MBI TIPPER *48 tickets and 48 transactions*	48.00 U	0.00	0.00	0.00
MISC - MISC CHARGES *174 tickets and 177 transactions*		0.00	0.00	0.00

MSW - MUNICIPAL SOLID WASTE

ICAW - I/C Allegany Cty Waste *5 tickets and 5 transactions*	21.64 T	0.00	21.64	0.00
ICCP - MSW POTTER COUNTY *8 tickets and 8 transactions*	137.16 T	0.00	137.16	0.00
ICMS - I-C MSW *126 tickets and 126 transactions*	4,576.50 T	0.00	4,576.50	0.00
MS - MSW *364 tickets and 364 transactions*	8,819.16 T	0.00	8,819.16	0.00
MSW - MUNICIPAL SOLID WASTE *503 tickets and 503 transactions*		0.00	13,554.46	0.00

MX - MIXED C&D AND MSW

ICTR - I/C Mixed Waste TT *77 tickets and 77 transactions*	2,270.28 T	0.00	2,270.28	0.00
MX - MSW & MIXED TRASH *24 tickets and 24 transactions*	233.13 T	0.00	233.13	0.00

MX - MIXED C&D AND MSW *101 tickets and 101 transactions*		0.00	2,503.41	0.00
SIM - INDUSTRIAL SOLIDIFICATION				
4155 - NON-HAZ LIQUID 4155 *6 tickets and 6 transactions*	84.78 T	0.00	84.78	0.00
4286 - I/C NON HAZ LIQUIDS 4286 *1 ticket and 1 transaction*	21.41 T	0.00	21.41	0.00
4966 - OILY TANK BOTTOMS 4966 *3 tickets and 3 transactions*	35.49 T	0.00	35.49	0.00
6112 - OFF SPEC PROD W/LIQ 6112 *7 tickets and 7 transactions*	66.85 T	0.00	66.85	0.00
SIM - INDUSTRIAL SOLIDIFICATION				
MSSL - INDUSTRIAL SOLIDIFICATION *6 tickets and 6 transactions*	89.77 T	0.00	89.77	0.00
SIM - INDUSTRIAL SOLIDIFICATION *23 tickets and 23 transactions*		0.00	298.30	0.00
SS - SEWAGE SLUDGE				
ICOS - 582 OLEAN WWTP SLUDGE *3 tickets and 3 transactions*	45.45 T	0.00	45.45	0.00
ICSL - I/C SLUDGE *146 tickets and 146 transactions*	5,105.30 T	0.00	5,105.30	0.00
ICWN - 2021 I/C WWTP SLUDGE *1 ticket and 1 transaction*	16.12 T	0.00	16.12	0.00
SL - SLUDGE *3 tickets and 3 transactions*	104.08 T	0.00	104.08	0.00
VWSL - 331 WWTP SLUDGE *3 tickets and 3 transactions*	39.59 T	0.00	39.59	0.00
SS - SEWAGE SLUDGE *156 tickets and 156 transactions*		0.00	5,310.54	0.00
Report Grand Totals ***1,228 tickets and 1,405 transactions***		0.00	27,199.21	0.00

End of Report

TONNAGE FOR 2019

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Category: All

Hyland Facility Associates

Category / Material Report

Transactions from 01/01/2019 through 12/31/2019
Inbound and Outbound Tickets
Third Party and Intercompany Customers
Recycle and Disposal Material
Material Summary

	BillUnits	Cubic Yards	Tons	Est Tons
ASB - ASBESTOS				
BAFA - BAGGED FRIABLE ASBESTOS *46 tickets and 46 transactions*	274.01 T	0.00	274.01	0.00
BUFA - BULK FRIABLE ASBESTOS *244 tickets and 244 transactions*	6,647.52 T	0.00	6,647.52	0.00
FRAS - FRIABLE ASBESTOS WASTE *1 ticket and 1 transaction*	0.43 T	0.00	0.43	0.00
ICBA - I/C BAGGED FRIABLE ASBESTOS *28 tickets and 28 transactions*	191.52 T	0.00	191.52	0.00
ICFR - I-C FRIABLE ASBESTOS *5 tickets and 5 transactions*	50.95 T	0.00	50.95	0.00
ASB - ASBESTOS *324 tickets and 324 transactions*		0.00	7,164.43	0.00
BUD - BUD ADC				
3912 - I/C SANDBLAST GRIT 3912 *8 tickets and 8 transactions*	152.17 T	0.00	152.17	0.00
BCAS - BUD ASR / ADC *10 tickets and 10 transactions*	299.89 T	0.00	299.89	0.00

BDCS - BUD CONTAMINATED SOIL *56 tickets and 56 transactions*	1,185.28 T	0.00	1,185.28	0.00
CDAD - CONSTRUCTION DEBRIS (BUD ADC) *451 tickets and 451 transactions*	15,308.47 T	0.00	15,308.47	0.00
ICBD - I/C BUD ADC *5 tickets and 5 transactions*	56.23 T	0.00	56.23	0.00
UPAS - 1730 AUTO SHREDDER *752 tickets and 752 transactions*	20,949.15 T	0.00	20,949.15	0.00
BUD - BUD ADC *1,282 tickets and 1,282 transactions*		0.00	37,951.19	0.00
BUDSBA - BUD SOLIDIFICATION BULKING AGENT				
1730 - ASR BULKING AGENT 1730S *114 tickets and 114 transactions*	3,159.72 T	0.00	3,159.72	0.00
BDSL - BUD BULKING AGENT *18 tickets and 18 transactions*	574.31 T	0.00	574.31	0.00
BUDSBA - BUD SOLIDIFICATION BULKING AGENT *132 tickets and 132 transactions*		0.00	3,734.03	0.00
C&D - CONSTRUCTION DEBRIS				
ACCD - ALLEGANY CTY C&D *25 tickets and 25 transactions*	110.97 T	0.00	110.97	0.00
AS - NON FRIABLE C&D *2 tickets and 2 transactions*	7.08 T	0.00	7.08	0.00
CD - CONSTRUCTION DEBRIS *3,272 tickets and 3,272 transactions*	61,698.31 T	0.00	61,698.31	0.00
ICAS - I-CNON FRIABLE ASBESTOS WASTE *1 ticket and 1 transaction*	2.84 T	0.00	2.84	0.00
ICCD - I-C CONSTUCTION DEBRIS *165 tickets and 165 transactions*	606.54 T	0.00	606.54	0.00
C&D - CONSTRUCTION DEBRIS *3,465 tickets and 3,465 transactions*		0.00	62,425.74	0.00
CS - CONTAMINATED SOIL				
CS - CONTAMINATED SOIL *115 tickets and 115 transactions*	3,333.48 T	0.00	3,333.48	0.00

CS - CONTAMINATED SOIL *115 tickets and 115 transactions*		0.00	3,333.48	0.00
IND - INDUSTRIAL				
4217 - NON-HAZ SOLIDS 4217 *61 tickets and 61 transactions*	221.91 T	0.00	221.91	0.00
4376 - I/C PLANT TRASH 4376 *1 ticket and 1 transaction*	7.77 T	0.00	7.77	0.00
4820 - I/C CHAT PLANT TRASH 4820 *4 tickets and 4 transactions*	11.69 T	0.00	11.69	0.00
4867 - I/C SAWDUST 4867 *13 tickets and 13 transactions*	58.51 T	0.00	58.51	0.00
6090 - I/C PLANT TRASH 6090 *12 tickets and 12 transactions*	53.31 T	0.00	53.31	0.00
6091 - I/C UNUSED PRODUCT 6091 *4 tickets and 4 transactions*	102.30 T	0.00	102.30	0.00
IND - INDUSTRIAL				
6534 - I/C PLANT TRASH 6534 *52 tickets and 52 transactions*	119.51 T	0.00	119.51	0.00
6535 - I/C PLANT TRASH 6535 *26 tickets and 26 transactions*	78.27 T	0.00	78.27	0.00
6645 - MIXED PLANT TRASH 6645 *113 tickets and 113 transactions*	720.63 T	0.00	720.63	0.00
6646 - MIXED PLANT TRASH 6646 *9 tickets and 9 transactions*	47.65 T	0.00	47.65	0.00
6687 - I/C FOUNDRY SAND 6687 *2 tickets and 2 transactions*	19.08 T	0.00	19.08	0.00
6849 - I/C USED OIL FILTERS 6849 *1 ticket and 1 transaction*	1.39 T	0.00	1.39	0.00
6864 - METAL GRINDING 6864 *3 tickets and 3 transactions*	33.41 T	0.00	33.41	0.00
ICCS - I-C CONTAMINATED SOIL *2 tickets and 2 transactions*	15.37 T	0.00	15.37	0.00
ICES - 189 INDUSTRIAL / PLANT TRASH *53 tickets and 53 transactions*	518.25 T	0.00	518.25	0.00
ICHA - 188 INDUSTRIAL / PLANT TRASH *49 tickets and 49 transactions*	154.97 T	0.00	154.97	0.00

ICIN - I-C INDUSTRIAL *32 tickets and 32 transactions*	187.14 T	0.00	187.14	0.00
ICLE - 1548 I/C TOBACCO *46 tickets and 46 transactions*	180.10 T	0.00	180.10	0.00
ICLV - I/C INDUSTRIAL WASTE *1 ticket and 1 transaction*	2.31 T	0.00	2.31	0.00
ICPO - 1830 POLYURANTHANE SCRAPS(185) *6 tickets and 6 transactions*	17.32 T	0.00	17.32	0.00
ICSD - I/C SAPUTO DAIRY TRASH *155 tickets and 155 transactions*	783.25 T	0.00	783.25	0.00
ICTP - 230 Plant Trash/Powder Paint *1 ticket and 1 transaction*	8.59 T	0.00	8.59	0.00
ICTQ - 1660 IC General Trash *7 tickets and 7 transactions*	10.48 T	0.00	10.48	0.00
IN - INDUSTRIAL *5 tickets and 5 transactions*	80.30 T	0.00	80.30	0.00
IND - INDUSTRIAL *658 tickets and 658 transactions*		0.00	3,433.51	0.00
LEACH - LEACHATE				
LEACH - LEACHATE *1,732 tickets and 1,732 transactions*	12,399,356.00 GAL	0.00	0.00	0.00
LEACH - LEACHATE *1,732 tickets and 1,732 transactions*		0.00	0.00	0.00
MISC - MISC CHARGES				
CO - CLEAN OUT SERVICE *10 tickets and 10 transactions*	10.00 U	0.00	0.00	0.00
AP - APPLIANCES *1 ticket and 1 transaction*	2.00 U	0.00	0.00	0.00
DO - DIG OUT SERVICE *192 tickets and 192 transactions*	193.00 U	0.00	0.00	0.00
ICCO - I/C CLEAN OUT *1 ticket and 1 transaction*	1.00 U	0.00	0.00	0.00
ICDO - I-C DIG OUT SERVICE *28 tickets and 28 transactions*	28.00 U	0.00	0.00	0.00
ICTI - CAR TIRE REGULAR *6 tickets and 6 transactions*	22.00 U	0.00	0.00	0.00

MBTI - MBI TIPPER CHARGE *3,089 tickets and 3,089 transactions*	3,089.00 U	0.00	0.00	0.00
MBTP - I/C MBI TIPPER *1,362 tickets and 1,362 transactions*	1,362.00 U	0.00	0.00	0.00
TI - CAR TIRES - REGULAR *27 tickets and 27 transactions*	88.00 U	0.00	0.00	0.00
TT - TRAILER TIRE *6 tickets and 6 transactions*	10.00 U	0.00	0.00	0.00
MISC - MISC CHARGES *4,610 tickets and 4,722 transactions*		0.00	0.00	0.00
MSW - MUNICIPAL SOLID WASTE				
ACMS - ALLEGANY CTY MSW *12 tickets and 12 transactions*	72.83 T	0.00	72.83	0.00
MSW - MUNICIPAL SOLID WASTE				
ICAW - I/C Allegany Cty Waste *77 tickets and 77 transactions*	290.98 T	0.00	290.98	0.00
ICCP - MSW POTTER COUNTY *392 tickets and 392 transactions*	6,548.50 T	0.00	6,548.50	0.00
ICMS - I-C MSW *1,735 tickets and 1,735 transactions*	61,409.33 T	0.00	61,409.33	0.00
MS - MSW *7,080 tickets and 7,080 transactions*	190,568.81 T	0.00	190,568.81	0.00
MSW - MUNICIPAL SOLID WASTE *9,296 tickets and 9,296 transactions*		0.00	258,890.45	0.00
MX - MIXED C&D AND MSW				
ICMX - I-C MSW & CD MIXED TRASH *4 tickets and 4 transactions*	5.72 T	0.00	5.72	0.00
ICTR - I/C Mixed Waste TT *1,600 tickets and 1,600 transactions*	45,457.85 T	0.00	45,457.85	0.00
MX - MSW & MIXED TRASH *283 tickets and 283 transactions*	2,639.76 T	0.00	2,639.76	0.00
MX - MIXED C&D AND MSW *1,887 tickets and 1,887 transactions*		0.00	48,103.33	0.00

SIM - INDUSTRIAL SOLIDIFICATION				
4155 - NON-HAZ LIQUID 4155 *66 tickets and 66 transactions*	892.67 T	0.00	892.67	0.00
4286 - I/C NON HAZ LIQUIDS 4286 *11 tickets and 11 transactions*	238.70 T	0.00	238.70	0.00
4427 - NON-HAZ LIQUID 4427 *13 tickets and 13 transactions*	77.68 T	0.00	77.68	0.00
4966 - OILY TANK BOTTOMS 4966 *104 tickets and 104 transactions*	1,668.49 T	0.00	1,668.49	0.00
6112 - OFF SPEC PROD W/LIQ 6112 *9 tickets and 9 transactions*	89.22 T	0.00	89.22	0.00
6994 - I/C OFF SPEC FOOD 6994 *1 ticket and 1 transaction*	3.25 T	0.00	3.25	0.00
SIM - INDUSTRIAL SOLIDIFICATION				
ICSO - I/C SOLIDIFICATION *1 ticket and 1 transaction*	6.32 T	0.00	6.32	0.00
MSSL - INDUSTRIAL SOLIDIFICATION *44 tickets and 44 transactions*	461.20 T	0.00	461.20	0.00
SIM - INDUSTRIAL SOLIDIFICATION *249 tickets and 249 transactions*		0.00	3,437.53	0.00
SS - SEWAGE SLUDGE				
6493 - WWTP SLUDGE 6493 *3 tickets and 3 transactions*	45.17 T	0.00	45.17	0.00
6805 - WWTP SLUDGE 6805 *4 tickets and 4 transactions*	69.15 T	0.00	69.15	0.00
ICOS - 582 OLEAN WWTP SLUDGE *102 tickets and 102 transactions*	1,655.60 T	0.00	1,655.60	0.00
ICSC - 244 SUFFOLK COUNTY SLUDGE *124 tickets and 124 transactions*	3,967.18 T	0.00	3,967.18	0.00
ICSL - I/C SLUDGE *2,186 tickets and 2,186 transactions*	70,598.14 T	0.00	70,598.14	0.00
ICWN - 2021 I/C WWTP SLUDGE *7 tickets and 7 transactions*	126.41 T	0.00	126.41	0.00
SL - SLUDGE *32 tickets and 32 transactions*	1,089.76 T	0.00	1,089.76	0.00

VWSL - 331 WWTP SLUDGE *47 tickets and 47 transactions*	650.80 T	0.00	650.80	0.00
SS - SEWAGE SLUDGE *2,505 tickets and 2,505 transactions*		0.00	78,202.21	0.00
TIRES - MISC CHARGES				
WT - WEIGHT CHARGE ONLY *1 ticket and 1 transaction*	1.00 U	0.00	0.00	0.00
HAFE - HANDLING FEE *4 tickets and 4 transactions*	4.00 U	0.00	0.00	0.00
TIRES - MISC CHARGES *5 tickets and 5 transactions*		0.00	0.00	0.00
Report Grand Totals ***21,646 tickets and 26,372 transactions***		0.00	506,675.90	0.00

End of Report

ATTACHMENT 10 – ADC MATERIAL FOR 4TH QUARTER 2019

RpCatMat.rpt

Category: BUD

Hyland Facility Associates

Category / Material Report

Transactions from 10/01/2019 through 10/31/2019
Inbound and Outbound Tickets
Third Party and Intercompany Customers
Recycle and Disposal Material
Material Summary

	BillUnits	Cubic Yards	Tons	Est Tons
BUD - BUD ADC				
BDCS - BUD CONTAMINATED SOIL *6 tickets and 6 transactions*	140.02 T	0.00	140.02	0.00
CDAD - CONSTRUCTION DEBRIS (BUD ADC) *76 tickets and 76 transactions*	2,382.80 T	0.00	2,382.80	0.00
UPAS - 1730 AUTO SHREDDER *42 tickets and 42 transactions*	1,160.72 T	0.00	1,160.72	0.00
BUD - BUD ADC *124 tickets and 124 transactions*		0.00	3,683.54	0.00
Report Grand Totals		0.00	3,683.54	0.00

124 tickets and 124 transactions

End of Report

RpCatMat.rpt

Category: BUD

Hyland Facility Associates

Category / Material Report

Transactions from 11/01/2019 through 11/30/2019
Inbound and Outbound Tickets
Third Party and Intercompany Customers
Recycle and Disposal Material
Material Summary

	BillUnits	Cubic Yards	Tons	Est Tons
BUD - BUD ADC				
CDAD - CONSTRUCTION DEBRIS (BUD ADC) *62 tickets and 62 transactions*	2,007.52 T	0.00	2,007.52	0.00
UPAS - 1730 AUTO SHREDDER *48 tickets and 48 transactions*	1,331.75 T	0.00	1,331.75	0.00
BUD - BUD ADC *110 tickets and 110 transactions*		0.00	3,339.27	0.00
Report Grand Totals		0.00	3,339.27	0.00

110 tickets and 110 transactions

End of Report

RpCatMat.rpt

Category: BUD

Hyland Facility Associates

Category / Material Report

Transactions from 12/01/2019 through 12/31/2019
Inbound and Outbound Tickets
Third Party and Intercompany Customers
Recycle and Disposal Material
Material Summary

	BillUnits	Cubic Yards	Tons	Est Tons
BUD - BUD ADC				
CDAD - CONSTRUCTION DEBRIS (BUD ADC) *33 tickets and 33 transactions*	1,140.94 T	0.00	1,140.94	0.00
ICBD - I/C BUD ADC *1 ticket and 1 transaction*	9.26 T	0.00	9.26	0.00
UPAS - 1730 AUTO SHREDDER *59 tickets and 59 transactions*	1,720.29 T	0.00	1,720.29	0.00
BUD - BUD ADC *93 tickets and 93 transactions*		0.00	2,870.49	0.00
Report Grand Totals		0.00	2,870.49	0.00

93 tickets and 93 transactions

End of Report

ATTACHMENT 11 – BUD MATERIAL FOR 4TH QUARTER 2019

1/22/2020
11:09AM
User ID: JIRELAND

RpCatMat.rpt

Category: BUDRB

Hyland Facility Associates

Category / Material Report

Transactions from 10/01/2019 through 10/31/2019
Inbound and Outbound Tickets
Third Party and Intercompany Customers
Recycle and Disposal Material
Material Summary

	BillUnits	Cubic Yards	Tons	Est Tons

No data for the criteria entered

Report Grand Totals

0 tickets and 0 transactions

End of Report

1/22/2020
11:09AM
User ID: JIRELAND

RpCatMat.rpt

Category: BUDRB

Hyland Facility Associates

Category / Material Report

Transactions from 11/01/2019 through 11/30/2019
Inbound and Outbound Tickets
Third Party and Intercompany Customers
Recycle and Disposal Material
Material Summary

	BillUnits	Cubic Yards	Tons	Est Tons

No data for the criteria entered

Report Grand Totals

0 tickets and 0 transactions

End of Report

1/22/2020
11:10AM
User ID: JIRELAND

RpCatMat.rpt

Category: BUDRB

Hyland Facility Associates

Category / Material Report

Transactions from 12/01/2019 through 12/31/2019
Inbound and Outbound Tickets
Third Party and Intercompany Customers
Recycle and Disposal Material
Material Summary

	BillUnits	Cubic Yards	Tons	Est Tons

No data for the criteria entered

Report Grand Totals

0 tickets and 0 transactions

End of Report

ATTACHMENT 12 – BUD SOLIDIFICATION BULKING AGENT FOR 4TH QUARTER 2019

RpCatMat.rpt

Category: BUDSBA

Hyland Facility Associates

Category / Material Report

Transactions from 10/01/2019 through 10/31/2019
Inbound and Outbound Tickets
Third Party and Intercompany Customers
Recycle and Disposal Material
Material Summary

	BillUnits	Cubic Yards	Tons	Est Tons
BUDSBA - BUD SOLIDIFICATION BULKING AGENT				
1730 - ASR BULKING AGENT 1730S	222.47 T	0.00	222.47	0.00
8 tickets and 8 transactions				
BUDSBA - BUD SOLIDIFICATION BULKING AGENT		0.00	222.47	0.00
8 tickets and 8 transactions				
Report Grand Totals		0.00	222.47	0.00
8 tickets and 8 transactions				

End of Report

RpCatMat.rpt

Category: BUDSBA

Hyland Facility Associates

Category / Material Report

Transactions from 11/01/2019 through 11/30/2019
Inbound and Outbound Tickets
Third Party and Intercompany Customers
Recycle and Disposal Material
Material Summary

	BillUnits	Cubic Yards	Tons	Est Tons
BUDSBA - BUD SOLIDIFICATION BULKING AGENT				
1730 - ASR BULKING AGENT 1730S	362.48 T	0.00	362.48	0.00
13 tickets and 13 transactions				
BUDSBA - BUD SOLIDIFICATION BULKING AGENT		0.00	362.48	0.00
13 tickets and 13 transactions				
Report Grand Totals		0.00	362.48	0.00
13 tickets and 13 transactions				

End of Report

RpCatMat.rpt

Category: BUDSBA

Hyland Facility Associates

Category / Material Report

Transactions from 12/01/2019 through 12/31/2019
Inbound and Outbound Tickets
Third Party and Intercompany Customers
Recycle and Disposal Material
Material Summary

	BillUnits	Cubic Yards	Tons	Est Tons
BUDSBA - BUD SOLIDIFICATION BULKING AGENT				
1730 - ASR BULKING AGENT 1730S	330.37 T	0.00	330.37	0.00
12 tickets and 12 transactions				
BUDSBA - BUD SOLIDIFICATION BULKING AGENT		0.00	330.37	0.00
12 tickets and 12 transactions				
Report Grand Totals		0.00	330.37	0.00
12 tickets and 12 transactions				

End of Report

ATTACHMENT 13 – LEACHATE TREATMENT FACILITIES

WESTFIELD
New York

January 7, 2019

Ms. Michelle McCloskey
Hyland Landfill
6653 Herman Road
Angelica, New York 14709

RE: Leachate Disposal from
NYSDEC Facility Code: SW 02A17

Dear Ms. McCloskey:

The Hyland Landfill is authorized to bring landfill leachate for disposal to the Village of Westfield Water Pollution Control Facility in 2019, SPDES Permit #NY-0021334, in accordance with all applicable State and Federal Regulations.

Our facility is capable of accepting 100,000 gallons per day of leachate and has storage capacity which could be utilized in an emergency. It is expected that you will notify us 24 hours in advance of any deliveries of leachate. Please forward, to my attention, any current test results you have on your leachate. Our current rate for leachate is $20 per thousand gallons.

Please call with any questions at 716-326-3932.

Sincerely,

Andrew Thompson
Chief Operator
Village of Westfield WPCF

AGREEMENT

Made this 14 day of Jan, 2019, by and between Hyland Facilities Associates, having its principal office at P.O. Box 354 Angelica, New York 14709, hereafter called "Hyland", and the VILLAGE OF BOLIVAR, a municipal corporation in the County of Allegany, with village offices at 252 Main Street, Bolivar, New York, hereafter called "Village".

WITNESSETH:

WHEREAS, Hyland generates waste material which must be treated before it can be disposed of, and

WHEREAS, the Village of Bolivar waste water treatment plant has the capacity to treat waste, and

NOW<THEREFORE, in consideration of the covenants and promises hereinafter set forth, the parties hereto agree as follows:

1. The Village shall accept for treatment waste which is generated at Hyland and which is delivered, at Hyland's expense, to the Village's waste water treatment plant in Bolivar, New York.
2. Hyland shall notify the Village, or it's duly appointed agent, servant, or employee, by telephone the morning of the date of disposal, which disposal shall be at times mutually agreed to between Hyland and the operator at the waste water treatment plant. The number of gallons to be disposed of each day must be mutually agreed upon during the mandatory phone call.
3. Hyland agrees to dispose of only those amounts that are acceptable to the treatment plant operator and only waste that has been analyzed and approved. The dumping of any other type of waste or chemical would be in violation of this agreement.
4. Hyland agrees to perform all dumping directly into the manhole or tank designated by the plant operator, with Hyland being responsible for spillage on streets or other surfaces, or spattering on adjacent walls, with such responsibility to insure that should any spillage occur, it will be immediately cleaned up.
5. Hyland will insure that the rate of discharge is not in excess of the maximum designated flow of the manhole, tank or treatment process, and will regulate the discharge rate according to the directive of the plant operator.

6. Hyland guarantees that the waste when delivered to the plant will be in compliance with all standards and requirements established by statute law rule or regulation that applies to or affects the treatment of the waste in the plant. In this connection, Hyland shall transmit to the Village the results of all tests, which are relevant to the treatment of waste at a wastewater treatment plant, done annually at time of renewal.
7. Hyland shall pay the Village a tipping fee of $.025 per gallon for each gallon delivered and accepted for treatment by the Village. Payment shall be made pursuant to an invoice prepared by the Village and submitted to Hyland.
8. Any invoices with regard to this contract shall be given to Hyland Facilities Associates, P.O. Box 354 Angelica, New York 14709 , or the Village of Bolivar Public Works Department, 252 Main Street, Bolivar, New York 14715.
9. The term of this agreement shall be deemed to have been in effect on and from Jan 14 2019, and shall expire on Jan 31 2020.

10. Either party may terminate this Agreement with a written notice of termination; such termination to take effect on the thirtieth (30th) calendar day from the date of mailing or delivery of such written notice from one party to the other.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be signed by their respective duly authorized officers.

HYLAND FACILITIES ASSOCIATES

BY: [signature]
General Mgr Hyland

VILLAGE OF BOLIVAR

BY: Stephanie MacDonell
Village Clerk/Treasurer

Village of Wellsville
Department of Public Works
200 Bolivar Road
Wellsville, NY 14895

Phone: 585-593-1850 ***FAX: 585-593-1856***

December 28, 2018

Mr. Robert Kras
Hyland Facility
6635 Herdman Road
Angelica, NY 14709

RE: Leachate Disposal Agreement

Dear Mr. Kras:

This letter is to confirm that Hyland Facility may continue to dispose of leachate at our Wastewater Treatment Facility through the year 2019. The per-gallon rate structure will remain the same at $ 0.03 per gallon through December 31, 2019.

The Village of Wellsville will not accept any material that will violate our TOG's, a copy of which can be obtained from the Village of Wellsville upon request.

Hyland will fully and promptly indemnify, save and hold harmless the Village of Wellsville and all of its officers, agents, and employees from and against any and all liability of any type whatsoever, including but not limited to damages, expenses, causes of action, lawsuits, claims, penalties, fines, assessments or judgments which may arise out of or occur in connection with the Village's acceptance of Hyland's Facility leachate at the Wellsville Wastewater Facility.

Please sign and return one copy of this letter to my attention. If you have any questions, please give me a call at (585) 596-1710.

William D. Whitfield
Director of Public Works

Robert Kras – Hyland Facility

WDW:dh

Cc: Mayor Randy Shayler
Mike Smith, Chief Operator

Steuben County
Department of Public Works

County Office Building
3 E. Pulteney Square
Bath, New York 14810

Vincent Spagnoletti
Commissioner

Phone (607) 664-2460
Fax (607) 664-2167

December 28, 2018

Michelle McCloskey
Casella Waste Systems, Inc.

Re: Steuben County Leachate Pre-Treatment Facility
Authorization for Treatment

Dear Ms. McCloskey:

Casella Waste Systems, Inc. is authorized to deliver leachate for treatment at the Steuben County Leachate Pre-Treatment Facility from the following location:

Bath Transfer Station – Bath, NY
Hyland Facility – Angelica, NY
Chemung County Landfill, Chemung, NY

The disposal fee for this material is currently $10.00/ton.

Please contact me if you have any questions or need additional information.

Very truly yours,

Richard Bills
Environmental Project Coordinator

Cc: S. Orcutt– Assistant Commissioner
B. Chaffee – Pretreatment Plant Operator

JAMESTOWN BPU BOARD OF PUBLIC UTILITIES

PO Box 700
Jamestown, NY 14702-0700
Phone (716) 661-1653
Fax (716) 665-2785

ELECTRIC
DISTRICT HEAT
WATER
WASTEWATER
SOLID WASTE

December 12, 2018

Hyland Facility Associates
6653 Herdman Road
Angelica, NY 14709

The Jamestown Board of Public Utilities will accept leachate generated at your facility. The rate for 2019 will be increasing to **$0.0250** per gallon or **$25.00** per 1,000 gallons. Please call this office if there are any anticipated changes to amounts being delivered.

We have limited our hours for deliveries from 7:00 AM to 6:00 PM, Monday through Friday, and 7:00 AM to noon on Saturday. We do not accept deliveries on Sunday.

Should you have any questions or concerns, please do not hesitate to contact this office.

Sincerely,

Keith Vanstrom
Chief Operator
Jamestown WWTP

TOWN OF CANEADEA

DEPARTMENT OF PUBLIC WORKS

PO BOX 596
CANEADEA, NEW YORK 14717
DAVID STENZEL – SUPERINTENDENT
(585) 567–8410 Office
(585) 314-2728 Cell

10 January 2019

Mr. Robert Kras
Hyland Facility
6635 Herdman Road
Angelica, NY 14709

RE: Leachate Disposal Agreement

Dear Mr. Kras;

This letter is to confirm that Hyland Facility may dispose of leachate at our Wastewater Treatment Facility through the year 2019. The per-gallon rate structure will remain the same at $0.025 per gallon through December 31, 2019.

The Town of Caneadea will not accept any material that will violate our TOG's, a copy of which can be obtained from the town upon request.

Hyland will fully and promptly indemnify, save and hold harmless the Town of Caneadea and all its officers, agents and employees from and against any and all liability of any type whatsoever, including but not limited to damages, expenses, causes of action, lawsuits, claims, penalties, fines, assessments or judgements which may arise out of or occur with the Town's acceptance of Hyland's Facility leachate at the Caneadea Wastewater Facility.

Please sign and return one copy of this letter to my attention. If you have any questions, plesase feel free to call me at (585)567-8410.

David Stenzel
Public Works Superintendent

Robert Kras
Hyland Facility

AGREEMENT

Made this 22 day of August, 2018, by and between Casella Waste Systems, Inc., 6653 Herdman Road, Angelica, New York, 14709, hereafter called "Casella", and the Village of Belmont, a municipal corporation in the County of Allegany, with village offices at 1 Schuyler Street, Belmont, New York, 14813, hereafter called the "Village".

WITNESSETH:

WHEREAS, Casella's Highland Facility Landfill generates leachate which must be treated before it can be disposed of, and

WHEREAS, the Village of Belmont wastewater treatment plant has the capability to treat leachate,

NOW, THEREFORE, in consideration of the covenants and promises hereinafter set forth, the parties hereto agree as follows:

1. The Village shall accept for treatment leachate, which is generated at the Hyland Facility Landfill and which is delivered, at Casella's expense, to the Village's wastewater treatment plant.

2. Casella shall negotiate with the Village, or its duly appointed agent, servant, or employee, a schedule for delivery of leachate for disposal, which disposal shall be at times mutually agreed between Casella and the operator at the wastewater treatment plant. The Village may temporarily suspend the receipt of leachate at any time due to issues with plant operation, low flow, etc.

3. Casella agrees to dispose of only those amounts that are acceptable to the treatment plant operator. The parties agree that a target of three loads per week has been set but is subject to change based on the Treatment Plants ability to properly treat the leachate. Casella will have first right of refusal should the Village decide to accept more leachate into the treatment facility.

4. Casella agrees to perform all dumping directly into the facility designated by the plant operator, with Casella being responsible for spillage on streets or other surfaces, or splattering on the adjacent walls, with such responsibility to insure that should any such spillage or splattering occur, it will be immediately cleaned up.

5. Casella will insure that the rate of discharge is not in excess of the maximum designed flow of the treatment process, and will regulate the discharge rate according to the directive of the plant operator.

6. Casella guarantees that the leachate when delivered to the plant will be in compliance with all standards and requirements established by statute, law, rule or regulation that applies to or affects the treatment of the leachate in the plant. In this connection, Casella shall transmit to the Village the results of all tests, which are relevant to the treatment of leachate at a wastewater treatment plant, done in their testing sequence as they become available.

7. Each vehicle loaded with leachate for delivery at the plant shall be weighed by Casella at the Hyland Landfill before delivery. Thereafter, Casella shall prepare a weight ticket containing: (1) the gross weight, tare weight and net weight (payload) of vehicle; (2) the date and time of the weighing which shall also be the date of the delivery of the leachate; (3) the vehicle number, and (4) the name of the transporter. The weight ticket or a true copy thereof shall be given by the transporter to the plant operator on the date of such delivery.

8. The net weight of the leachate, as shown on the weight ticket, shall be the basis for determining the number of gallons accepted for treatment by the Village. The formula for such basis shall be the net weight of the leachate divided by 8.3 pounds which is the weight of one gallon.

9. Casella shall pay the Village a tipping fee of three and three tenths cents ($.033) per gallon of leachate delivered and accepted for treatment at the plant. In addition Casella shall reimburse the Village any cost related to testing for acceptance of the leachate. Payment shall be made pursuant to an invoice prepared by the Village and submitted to Casella. Invoices and payments will be done on a monthly basis.

10. Any notices with regard to this contract shall be given to (Name, Title and Address), or to the Village of Belmont Mayor, or his duly authorized representative, 1 Schuyler Street, Belmont, New York 14813.

11. The term of this Agreement shall be October 1, 2018, and shall expire December 31, 2020.

12. Either party may terminate this Agreement with a written notice of termination; such termination to take effect on the thirtieth (30^{th}) calendar day from the date of mailing or delivery of such written notice from one party to the other.

IN WITNESS WHEREOF, the parties hereto have affixed their seals hereto and caused these presents to be signed by their respective duly authorized officers pursuant to a resolution of the Casella Board duly adopted on the 22 day of August, 2018, and pursuant to a resolution of the Village of Belmont Board duly adopted on the 13th day of August, 2018.

Village of Belmont

By: _____
Mayor

Attest:

By: _____
Village Clerk

Casella Waste Systems, Inc.

By: _____
Bob Kras - General Manager

Attest:

By: _____
Rose Bartlett - Staff Accountant

ATTACHMENT 14 – LEACHATE HAULERS/BACKUP LEACHATE HAULERS

MAYBEE ENTERPRISES INC

5044 RT 244 PO BOX 26 BELMONT NY 14813

585-268-5384/FAX 585-268-5385

MaybeeEnterprises5384@gmail.com

2020 LEACHATE QUOTE

BASED ON 7000 GALLONS PER LOAD

BATH	**$325**
BELMONT	**$175**
BOLIVAR	**$230**
FRIENDSHIP	**$195**
HOUGHTON	**$215**
JAMESTOWN	**$395**
WELLSVILLE	**$215**
WESTFIELD	**$495**

Please note: This quote is based on $3.10 or less per gallon diesel fuel price. There will be a fuel surcharge if diesel fuel goes above and beyond $3.35/gallon per the U.S. Energy Information Administration(eia).

9/26/2019

Kaitlyn Murray

From: Joshua Haley <Joshua.Haley@casella.com>
Sent: Wednesday, January 15, 2020 10:34 AM
To: Kaitlyn Murray
Subject: M&T Trucking Rates

Kaitlyn,

Below are the M&T Trucking Rates

Josh Haley
Operations Manager
Casella Waste Systems, Inc.

6653 Herdman Rd Angelica, NY 14709
p. 585-268-1130 | f. 585-466-3206 | c. 716-560-7916 VOIP. 1130

Learn more at casella.com

-----Original Message-----
From: Dave Monte <dispatch@mandttrucking.com>
Sent: Monday, October 7, 2019 9:49 AM
To: Joshua Haley <Joshua.Haley@casella.com>
Subject: rates

Rates:

Hyland to Caneadea 0.027

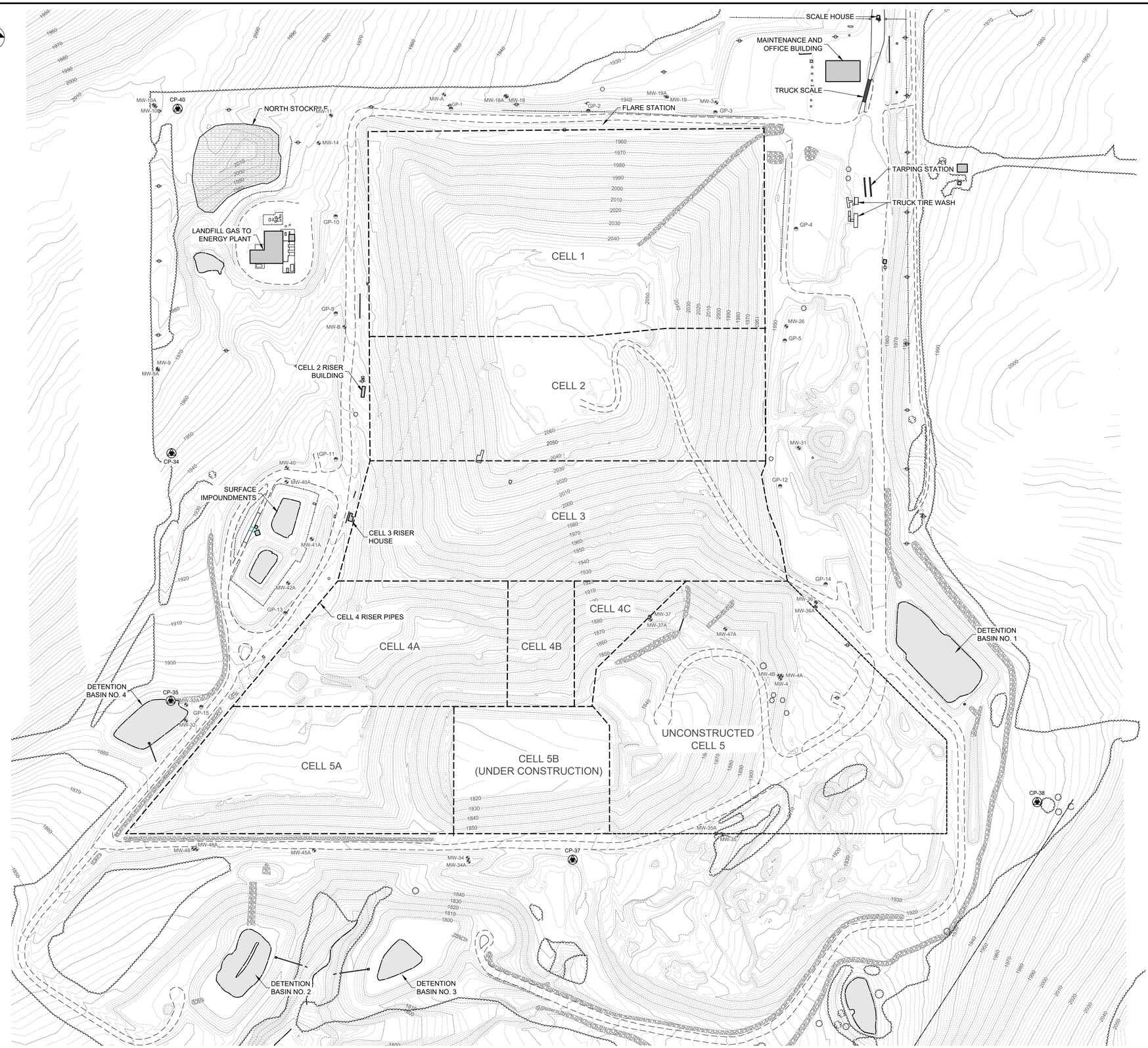
Hyland to Wellsville 0.027

Hyland to Jamestown .0.49

To be effective November 1, 2019

Thanks

ATTACHMENT 15 – 2019 TOPOGRAPHIC MAP



LEGEND

- EXISTING GROUND CONTOURS (SEE NOTE 1)
- PROPERTY LINE
- STREAM / CREEK
- BUILDING
- CONSTRUCTED LANDFILL LIMIT
- HAUL ROAD
- DETENTION POND / WATER
- TREELINE

NOTE:
1. Existing contours compiled by Quantum Spatial using photogrammetric methods from aerial photography dated June 8, 2019.

AIRSPACE SUMMARY TABLE

DESIGNATION	VOLUME (cy)
PERMITTED AIRSPACE ①	14,169,300
AIRSPACE USED ②	7,533,950
AIRSPACE REMAINING	6,635,350

AIRSPACE SUMMARY TABLE NOTES:
1. Total permitted airspace based on waste capacity of Cells 1 through 5.
2. Airspace used based on volume between the record top of leachate collection layer of Cells 1 through 5A and the June 8, 2019 ground contours.

SOIL BALANCE TABLE

SOIL COMPONENT	QUANTITY (cy)
SOILS REQUIRED	
DAILY COVER / INTERMEDIATE COVER ①	1,161,186
FINAL COVER ②	321,000
LINER MATERIAL ③	58,483
TOTAL REQUIRED	1,540,669
SOILS AVAILABLE	
ON-SITE SOILS ④	1,559,068
15% BUD ⑤	545,573
TOTAL AVAILABLE	2,104,641
SOIL BALANCE ⑥	563,972

SOIL BALANCE TABLE NOTES:
1. Daily cover / intermediate cover based on 17.5% of the remaining airspace. The 17.5% is based on the Operation and Maintenance Manual (O&M Manual) prepared by Sanborn, Head Engineering, P.C. (SHPC) dated March 2006.
2. Final cover requirement based on assuming 24 inches of barrier protection soil and 6 inches of topsoil.
3. Liner material requirement based on the quantity of material required to construct remainder of Cell 5.
4. On-site soils based on available material between the June 8, 2019 ground contours and permitted base grades for Cell 5, the north Gas Plant stockpile, and the borrow areas south of Cell 5. This does not include any available soils located to the east of Cells 1 & 2.
5. Alternate Daily Cover (ADC) soils based on 15% of the remaining waste tonnage. ADC soils estimated based on an airspace utilization factor of 0.74 ton/cy and a ADC unit weight of 100 pcf.
6. Soil balance based on the difference between required and available soils.

SITE LIFE TABLE

DESIGNATION	SITE LIFE (YEARS)
CELLS 1-5	10.6

TABLE NOTES:
1. Site life based on remaining airspace as of June 8, 2019. An airspace utilization factor of 0.74 tons/cy (average AUF (excluding ADC) through June 8, 2019) and waste receipts of 465,000 tons/year.

150' 0 75 150'
SCALE: 1" = 150'

NOTE:
UNAUTHORIZED ALTERATION OR ADDITION TO ANY SURVEY, DRAWING, DESIGN, SPECIFICATION, PLAN, OR REPORT IS A VIOLATION OF SECTION 7209 PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

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www.mmce.net

REV 1 | REV 2 | REV 3 | REV 4 | REV 5 | REV 6

HYLAND FACILITY - JUNE 8, 2019 SITE CONDITIONS PLAN

ALLEGANY COUNTY NEW YORK

DRAWN BY:	C.R.G.
DESIGNED BY:	D.E.W.
CHECKED BY:	S.W.L.
SCALE:	1" = 150'
DATE:	JANUARY 2020
JOB NO.	93-002
SHEET	1
DWG. NO.	93002-997
REVISION NUMBER -	0

S:\CAD\DRAWING\PROJECT\HYLAND\Operational\93002-997.dwg

ATTACHMENT 16 – SUMMARY OF LEACHATE BREAKOUT INSPECTIONS

Attachment 16 - Summary of Leachate Breakout Inspections

Date	# of Breakouts	Location	Action
1/2/2019	1	West slope of Cell 4A	Excavated/installed pipes/covered/tracked
1/7/2019	1	Northeast slope of Cell 4B	Excavated/installed pipes/covered/tracked
1/15/2019	2	Southeast slope of Cell 4B and west slope of Cell 4C	Excavated/installed pipes/covered/tracked
1/16/2019	1	Southwest slope of Cell 4C	Excavated/installed pipes/covered/tracked
3/13/2019	2	South slope of Cell 4A	Excavated/drained/covered/tracked
3/14/2019	4	South slope of Cell 4A and west slope of Cell 4B	Excavated/drained/covered/tracked
3/19/2019	1	Southeast slope of Cell 4C	Excavated/installed pipes/recovered
3/20/2019	1	East slope of Cell 5A	Excavated/installed pipes/recovered
3/21/2019	1	Northeast slope of Cell 5A	Excavated/installed pipes/covered/tracked
4/2/2019	1	Northeast slope of Cell 5A	Excavated/drained/covered/tracked
4/9/2019	1	South slope of Cell 4A	Excavated/drained/covered/tracked
4/10/2019	1	South slope of Cell 4A	Excavated/drained/covered/tracked
4/12/2019	1	Southeast slope of Cell 4A	Excavated/drained/covered/tracked
4/18/2019	2	East slope of Cell 5A	Excavated/installed pipes/covered/tracked
4/23/2019	1	Northeast slope of Cell 5A	Excavated and recovered
4/29/2019	1	Northeast slope of Cell 5A	Excavated and recovered
5/16/2019	1	Northwest slope of Cell 5A	Excavated/recovered/tracked
5/17/2019	5	East slope of Cell 5A, southeast slope of Cell 4A, and northeast slope of Cell 4B	Excavated/recovered/tracked
5/22/2019	1	Northeast slope of Cell 5A	Excavated/recovered/tracked
5/29/2019	1	Southeast slope of Cell 4A	Excavated/installed pipes/covered/tracked
6/5/2019	3	East slope of Cell 5A and southeast slope of Cell 4A	Excavated/installed pipes/covered/tracked
6/7/2019	3	Southeast slope of Cell 4A and southwest slope of Cell 4B	Excavated/drained/covered/tracked
6/11/2019	1	Southeast slope of Cell 4A	Excavated/drained/covered/tracked
6/17/2019	1	Southeast slope of Cell 4A	Excavated/recovered/tracked
6/19/2019	1	Southeast slope of Cell 4A	Excavated/drained/covered/tracked
6/24/2019	3	Southeast slope of Cell 4A and east slope of Cell 5A	Excavated/drained/covered/tracked
6/26/2019	1	Inside slope of Cell 5A	Excavated/recovered/tracked
7/1/2019	1	Northeast slope of Cell 5A	Excavated/recovered/tracked
7/5/2019	1	North slope of Cell 5A	Excavated/installed pipes/covered/tracked
7/8/2019	2	Northeast slope of Cell 5A	Excavated/drained/covered
7/9/2019	1	Northeast slope of Cell 5A	Excavated/drained/covered
7/25/2019	1	Northeast slope of Cell 5A	Excavated/drained/covered
7/26/2019	1	Northeast slope of Cell 5A	Excavated/drained/covered
8/13/2019	1	Northeast slope of Cell 5A	Excavated/drained/covered
11/6/2019	1	Side slope between Cells 4A and 4B	Excavated/drained/covered
12/11/2019	2	Northeast slope of Cell 5A	Excavated/drained/covered
12/26/2019	2	Northeast slope of Cell 5A and northwest slope of Cell 5B	Excavated/drained/covered
Total	56		

ATTACHMENT 17 – PRO-CONTROL EVALUATION

Pro-Control Quarterly Ststem Integrity Evaluation

Date: 12/19/19

Year and Quarter:

2019 4th Quarter

Individual Completing the Evaluation (2 minimum):

Josh Haley Greg Thomas

Identify, if any, issues remaining since last quarterly evaluation:

None

List all individuals set to receive an alarm message when conditions warrant:

Name	Title / Position	e-mail address
Josh Haley	Site Manager	Joshua.Haley@casella.com
Greg Thomas	Env. Technician	Gregory.Thomas@Casella.com
Jessica Ireland	Scale Attendent	Jessica.Ireland@casella.com
Mike Alberton	Engineer	~~Mike~~. Alberton@sanbournehead.com

Sign-Off (signature required for individuals completing the evaluation and those on the alarm message system verifying receipt of a system alarm via e-mail)

Name	Signature	Date
Josh Haley	Joshua Haley	12/19/19
Greg Thomas	[signature]	12/09/19

Date: 12/9/19
Time: 1:30 PM
Individuals Completing Evaluation: Josh Haley Greg Thomas

CELL 1&2 CONTROL PANEL

Task No.	Task Description	Cell Designation					
		Cell 1 Primary	Cell 2 Primary	Cell 1 A/B Secondary	Cell 1 C/D Secondary	Cell 2 E/F Secondary	Cell 2 G/H Secondary
	Procontrol Software Settings (Office)						
1	"Pump-On" High Level Liquid Level (inches)	20.1	17.4	20.1	20.1	20.1	20.1
2	"Pump-Off" Low Liquid Level (inches)	9.7	12.9	8.4	7.1	18.0	17.0
3	"High-High" Level Alarm Set-Point (inches)	22.0	21.4	22.0	22.0	~~22.0~~	22.0
4	"Low-Low" Level Alarm Set-Point (inches)	4.0	3.0	3.9	4.5	3.0	3.0
5	Sump Liquid Level (inches) - Read at same time as Task 7	14.6	14.0	8.9	8.8	16.9	17.0
6	Cumulative Gallons Pumped (Gallons) - Read at same time as Task 9	30,152,278	42,208195	630,109	92,078	324939	197,694
	Control-Panel Readout (Field)						
7	Sump Liquid Level (inches)	14.6	14.0	8.9	8.8	16.9	17.0
8	Does Task 7 match Task 5? (Y/N)	Y	Y	Y	Y	Y	Y
9	Cumulative Gallons Readout (gallons)	17674000	42,421,100	654,544	83,143	324,202	175,337
10	Does Task 9 match Task 6? (Y/N)	N	N	N	N	N	N
11	Push the Pump Inhibit Button. Do any lights stay on? If so describe.	N	N	N	N	N	N
	Active Pump (Manually)						
12	Control Panel Sump Level Readout Following Pumping (inches)	9.7	12.9	8.4	7.1	18.0	17.0
13	Does Task 12 match Task 2? (Y/N)	Y	Y	Y	Y	Y	Y
14	Cumulative Gallons Readout (gallons)	30,152,334	42,208,228	630,114	92,101	324,9~~80~~	19769~~5~~
15	Gallons Pumped (Task No. 14 - Task 9) - gallons	56	33	5	23	1	1
	Activate High-High Level Alarm						
16	Adjust High-High Level to Activate Alarm (inches)	13 9	16.0	8.0	7.0	16.8	16.8
17	Light Activated? (Y/N)	Y	Y	Y	Y	Y	Y
18	e-mail confirmation (yes or no) -Attach copy of e-mail from all recipients	N	N	N	N	N	N
	Activate Low-Low Level Alarm						
19	Adjust Low-Low Level to Activate Alarm (inches)	14.3	16.5	8.5	7.2	17.0	17.0
20	Light Activated? (Y/N)	Y	Y	Y	Y	Y	Y
21	e-mail confirmation (yes or no) -Attach copy of e-mail from all recipients	N	N	N	N	N	N
22	Follow Up Activities (yes or no), if yes list below	N	N	N	N	N	N

- Flows will not register unless there has never been flow meter issue

Follow Up Activities:

Emails cannot send when connected to Pro-control
To complete Evaluation

Date: 12/9/19
Time: 3:30PM
Individuals Completing Evaluation: Josh Hailey Greg Thomas

CELL 3,4&5 CONTROL PANEL

Task No.	Task Description	Cell Designation					
		Cell 3 Primary	Cell 3 Secondary	Cell 4 Primary	Cell 4 Secondary	Cell 5 Primary	Cell 5 A/B Secondary
	Procontrol Software Settings (Office)						
1	"Pump-On" High Level Liquid Level (inches)	21.0	19.4	20.1	20.1	20.1	20.1
2	"Pump-Off" Low Liquid Level (inches)	5.0	10.3	9.0	7.8	7.5	11.6
3	"High-High" Level Alarm Set-Point (inches)	~~3.0~~ 22.0	~~23.8~~	22.0	22.0	22.0	22.0
4	"Low-Low" Level Alarm Set-Point (inches)	3.0	3.9	4.0	3.0	3.0	3.0
5	Sump Liquid Level (inches) - Read at same time as Task 7	19.1	18.1	16.9	15.3	9.7	20.1
6	Cumulative Gallons Pumped (Gallons) - Read at same time as Task 9	51,962,019	8,039,927	34,760,898	3647916	4,376,579	59,663
	Control-Panel Readout (Field)						
7	Sump Liquid Level (inches)	19.1	18.1	16.9	15.3	9.7	20.1
8	Does Task 7 match Task 5? (Y/N)	Y	Y	Y	Y	Y	Y
9	Cumulative Gallons Readout (gallons)	962171	277184	424080	27932	598135	911646
10	Does Task 9 match Task 6? (Y/N)	N	N	N	N	N	N
11	Push the Pump Inhibit Button. Do any lights stay on? If so describe.	N	N	N	N	N	N
	Active Pump (Manually)						
12	Control Panel Sump Level Readout Following Pumping (inches)	5.0	10.3	9.0	7.8	7.5	11.6
13	Does Task 12 match Task 2? (Y/N)	Y	Y	Y	Y	Y	Y
14	Cumulative Gallons Readout (gallons)	51,962,054	8,039,994	34,761,078	364,823	4,376,610	60,083
15	Gallons Pumped (Task No. 14 - Task 9) - gallons	15	67	80	27	31	421
	Activate High-High Level Alarm						
16	Adjust High-High Level to Activate Alarm (inches)	8.3	9.9	9.1	7.7	7.4	11.5
17	Light Activated? (Y/N)	Y	Y	Y	Y	Y	Y
18	e-mail confirmation (yes or no) -Attach copy of e-mail from all recipients	N	N	N	N	N	N
	Activate Low-Low Level Alarm						
19	Adjust Low-Low Level to Activate Alarm (inches)	5.1	10.5	9.3	7.9	7.7	11.8
20	Light Activated? (Y/N)	Y	Y	Y	Y	Y	Y
21	e-mail confirmation (yes or no) -Attach copy of e-mail from all recipients	N	N	N	N	N	N
22	Follow Up Activities (yes or no), if yes list below	N	N	N	N	N	N

Follow Up Activities:

Date: 12/9/19
Time: 4:00PM
Individuals Completing Evaluation: Josh Haley Greg Merrey

SURFACE IMPOUNDMENT CONTROL PANEL

Task No.	Task Description	Surface Impoundment Designation			
		Bay 1 Primary	Bay 1 Secondary	Bay 2 Primary	Bay 2 Secondary
	Procontrol Software Settings (Office)				
1	"Pump-On" High Level Liquid Level (inches)	N/A	18.0 ~~N/A~~	N/A	11.0 ~~N/A~~
2	"Pump-Off" Low Liquid Level (inches)	N/A	17.0 ~~N/A~~	N/A	10.0 ~~N/A~~
3	"High-High" Level Alarm Set-Point (inches)	11.0	~~22~~.0	11.0	22.0
4	"Low-Low" Level Alarm Set-Point (inches)	0.5	3.0	0.5	3.0
5	Sump Liquid Level (inches) - Read at same time as Task 7	5.5	4.4	6.2	9.9
6	Cumulative Gallons Pumped (Gallons) - Read at same time as Task 9	~~135595550~~ 191896	8572121	~~135595550~~ ~~191896~~	4,362,869
	Control-Panel Readout (Field)				
7	Sump Liquid Level (inches)	5.5	4.4	6.2	9.9
8	Does Task 7 match Task 5? (Y/N)	Y	Y	Y	Y
9	Cumulative Gallons Readout (gallons)	191896	80104	191896	15909
10	Does Task 9 match Task 6? (Y/N)	N	N	N	N
11	Push the Pump Inhibit Button. Do any lights stay on? If so describe.	N	N	N	N
	Active Pump (Manually) - Leachate Hauling Truck will be required or transferred from one Bay to the other Bay				
12	Control Panel Sump Level Readout Following Pumping (inches)	N/A - Pump a minimum of 1000 gallons	17	N/A - Pump a minimum of 1000 gallons	10
13	Does Task 12 match Task 2? (Y/N)	Y	Y	Y	Y
14	Cumulative Gallons Readout (gallons)	135596550	8,572,124	~~135~~ 135602503	4,362,881
15	Gallons Pumped (Task No. 14 - Task 9) - gallons	1,021	3	6,974	12
	Activate High-High Level Alarm				
16	Adjust High-High Level to Activate Alarm (inches)	5.4	4.3	6.1	9.8
17	Light Activated? (Y/N)	Y	Y	Y	Y
18	e-mail confirmation (yes or no) -Attach copy of e-mail from all recipients	N	N	N	N
	Activate Low-Low Level Alarm				
19	Adjust Low-Low Level to Activate Alarm (inches)	5.6	~~5~~1.5	6.3	10.0
20	Light Activated? (Y/N)	Y	Y	Y	Y
21	e-mail confirmation (yes or no) -Attach copy of e-mail from all recipients	N	N	N	N
22	Follow Up Activities (yes or no), if yes list below	N	N	N	N
23	Surface Impoundment Capacity Test- Does the system shut down when High-High Level is Activated? (Y/N)	Y	N/A	Y	N/A

Follow Up Activities:

ATTACHMENT 18 – RADIATION MONITORING SUMMARY TABLE

Attachment 18 - Radiaton Monitoring Summary Table

Incident Number	Received		Hauler	Origin	Truck Number	Reading	Disposal Status	Removed	
	Date	Time						Date	Time
	1/15/19	12:36pm	MR Bults Inc.	Rockland	2264	9.9 kcps	Material was disposed in landfill after radiation survey identified material as I-131 (medical isotope) and approval received via email from NYSDEC (Thomas Papura) on 1/16/19.	NA	NA
	2/20/19	11:35am	M.B.I.	Rockland	2331	20.2 kcps	Material was disposed in landfill after radiation survey identified material as Lu-177 (medical isotope) and approval received via email from NYSDEC (Thomas Papura) on 2/21/19.	NA	NA
	4/23/19	11:00am	Morgan's Waste	Steuben	114	12.6 kcps	Material was disposed in landfill after radiation survey identified material as I-131 (medical isotope) and approval received via email from NYSDEC (Thomas Papura) on 4/24/19.	NA	NA
	5/22/19	12:12pm	LJ Firewood	City Carting and Recycling	6	11.3 kcps	Material was disposed in landfill after radiation survey identified material as I-131 (medical isotope) and approval received via email from NYSDEC (Thomas Papura) on 5/23/19.	NA	NA

ATTACHMENT 19 – GROUNDWATER SUPPRESSION SYSTEM FLOW MEASUREMENTS

Hyland Landfill Groundwater Suppression System Flows Cell 3

Date	Flow (GPM)
1/4/2019	2.70
1/11/2019	2.54
1/18/2019	2.43
1/25/2019	2.38
2/1/2019	2.38
2/8/2019	2.88
2/15/2019	2.54
2/22/2019	2.40
3/1/2019	2.14
3/8/2019	2.22
3/15/2019	2.51
3/22/2019	2.00
3/29/2019	2.50
4/5/2019	1.50
4/12/2019	2.75
4/19/2019	2.00
4/26/2019	2.22
5/3/2019	2.50
5/10/2019	1.50
5/17/2019	2.70
5/24/2019	2.70
5/31/2019	2.60
6/7/2019	2.70
6/13/2019	3.49
6/21/2019	2.40
6/28/2019	2.11
7/5/2019	2.11
7/12/2019	1.43
7/19/2019	2.11
7/26/2019	1.59
8/2/2019	1.80
8/9/2019	1.59
8/16/2019	1.32
8/23/2019	1.32
8/30/2019	1.32
9/7/2019	1.58
9/13/2019	1.56
9/20/2019	1.56
9/27/2019	1.56
10/3/2019	1.59
10/11/2019	1.56
10/18/2019	0.58
10/25/2019	1.56
11/2/2019	0.58
11/9/2019	1.56
11/15/2019	1.58
11/20/2019	1.26
11/27/2019	1.24
12/4/2019	1.31
12/11/2019	1.58
12/19/2019	1.32
12/26/2019	1.32

Hyland Landfill Groundwater Suppression System Flows Cell 4

Date	Flow (GPM)
1/4/2019	0.030
1/11/2019	0.050
1/18/2019	0.030
1/25/2019	0.030
2/1/2019	0.000
2/8/2019	0.080
2/15/2019	0.050
2/22/2019	0.040
3/1/2019	0.050
3/8/2019	0.040
3/15/2019	0.030
3/22/2019	0.080
3/29/2019	0.050
4/5/2019	0.030
4/12/2019	0.050
4/19/2019	0.050
4/26/2019	0.500
5/3/2019	0.050
5/10/2019	0.500
5/17/2019	0.060
5/24/2019	0.060
5/31/2019	0.060
6/7/2019	0.060
6/14/2019	0.080
6/21/2019	0.070
6/28/2019	0.030
7/5/2019	0.026
7/12/2019	0.026
7/19/2019	0.013
7/26/2019	0.013
8/2/2019	0.005
8/9/2019	0.004
8/16/2019	0.026
8/23/2019	0.026
8/30/2019	0.026
9/7/2019	0.019
9/13/2019	0.013
9/20/2019	0.013
9/27/2019	0.013
10/4/2019	0.019
10/11/2019	0.013
10/18/2019	0.013
10/25/2019	0.006
11/1/2019	0.006
11/8/2019	0.006
11/15/2019	0.005
11/20/2019	0.005
11/27/2019	0.012
12/4/2019	0.008
12/11/2019	0.013
12/19/2019	0.013
12/26/2019	0.007

Hyland Landfill Groundwater Suppression System Flows Cell 5

Date	Flow (GPM)
1/4/2019	0.00
1/11/2019	0.05
1/18/2019	0.00
1/25/2019	0.00
2/1/2019	0.00
2/8/2019	0.08
2/15/2019	0.00
2/22/2019	0.03
3/1/2019	0.37
3/8/2019	0.00
3/15/2019	0.15
3/22/2019	0.05
3/29/2019	0.15
4/5/2019	0.07
4/12/2019	0.15
4/19/2019	0.50
4/26/2019	0.50
5/3/2019	0.50
5/10/2019	0.50
5/17/2019	0.05
5/24/2019	7.60
5/31/2019	15.53
6/7/2019	15.90
6/14/2019	25.36
6/21/2019	12.90
6/28/2019	15.85
7/5/2019	15.85
7/12/2019	15.85
7/19/2019	15.85
7/26/2019	15.85
8/2/2019	15.85
8/9/2019	15.85
8/16/2019	15.85
8/23/2019	15.85
8/30/2019	15.85
9/6/2019	15.85
9/13/2019	15.85
9/20/2019	15.85
9/27/2019	15.85
10/4/2019	15.85
10/11/2019	15.85
10/18/2019	15.85
10/25/2019	15.85
11/1/2019	15.85
11/8/2019	15.85
11/15/2019	15.85
11/20/2019	15.85
11/27/2019	15.85
12/4/2019	15.85
12/11/2019	15.85
12/19/2019	15.85
12/26/2019	15.85